DIP SHIELDED POWER INDUCTORS

LGS1213B SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

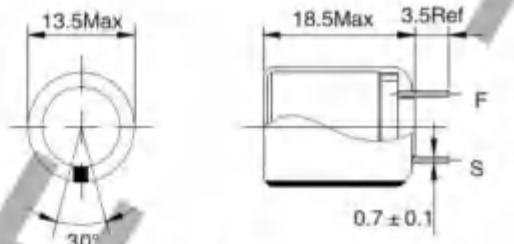
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1213B-100Y	10	30	10.0	8.0
LGS1213B-120Y	12	30	9.0	7.0
LGS1213B-150Y	15	30	8.0	6.0
LGS1213B-220Y	22	50	6.5	5.5
LGS1213B-330Y	33	100	5.0	5.0
LGS1213B-470Y	47	100	4.5	4.0

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

DIP SHIELDED POWER INDUCTORS

LGS1218B SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

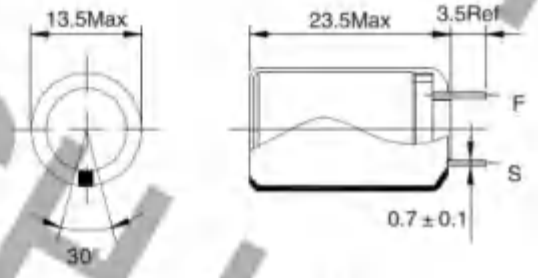
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1218B-100Y	10	30	10.0	10.0
LGS1218B-120Y	12	30	9.5	8.5
LGS1218B-150Y	15	30	8.5	8.0
LGS1218B-220Y	22	50	6.5	7.0
LGS1218B-330Y	33	50	5.0	6.0
LGS1218B-470Y	47	100	4.5	5.0

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

DIP SHIELDED POWER INDUCTORS

LGS1619 SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

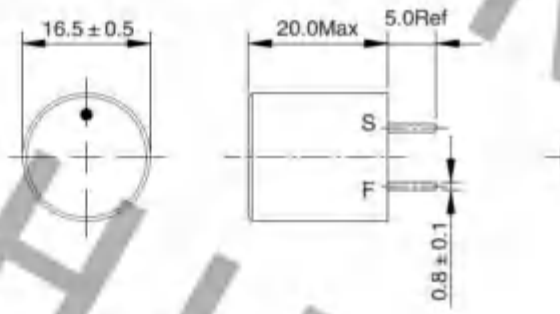
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1619-100Y	10	8.5	10	12
LGS1619-120Y	12	10	9	11
LGS1619-150Y	15	12	8	10.5
LGS1619-220Y	22	16	6.5	8.5
LGS1619-330Y	33	22	5	8
LGS1619-470Y	47	30	3.5	7

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

DIP SHIELDED POWER INDUCTORS

LGS1622 SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

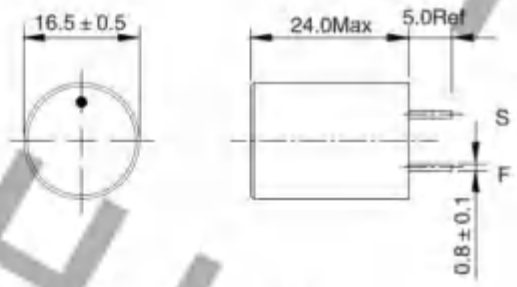
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1622-100Y	10	10	12	11
LGS1622-120Y	12	12	11	10.5
LGS1622-150Y	15	15	10	10
LGS1622-220Y	22	18	7	9.5
LGS1622-330Y	33	20	6	9
LGS1622-470Y	47	30	5	8

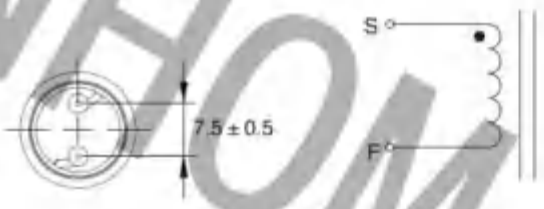
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

DIP SHIELDED POWER INDUCTORS

LGS1622B SERIES



FEATURES:

- Excellent solderability and heat resistance
- Magnetically shielded type inductor,possible to decrease reflection noise
- Available for high density mount due to compact size
- Accomplished low total harmonics distortion as compared

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

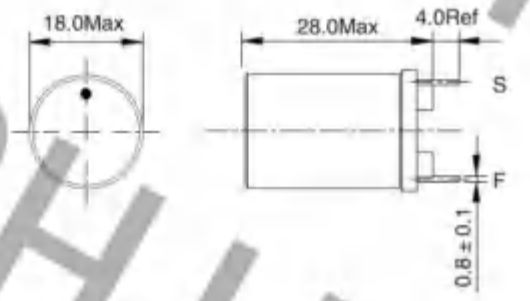
ELECTRICAL CHARACTERISTICS:

Part Number	L uH ± 25%	DCR mΩ Max	Rated current A Max	Allowable current A Max
LGS1622B-100Y	10	20	15	9
LGS1622B-120Y	12	22	14	8.5
LGS1622B-150Y	15	25	12	8
LGS1622B-220Y	22	30	11	7.5
LGS1622B-330Y	33	40	10	7
LGS1622B-470Y	47	55	8	6

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

PHYSICAL CHARACTERISTICS:

Dimension: mm



WINDING:



TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance:HP4342A,HP4284A
  RDC:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH0603 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

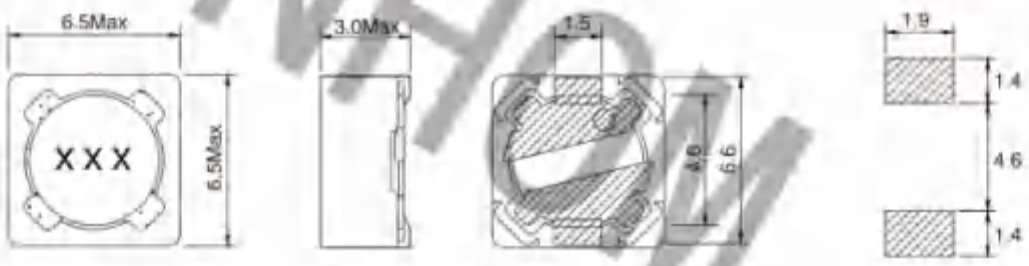
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μH) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH0603-3R5□	3R5	3.5	0.027	3.0
SDRH0603-4R7□	4R7	4.7	0.031	2.4
SDRH0603-6R1□	6R1	6.1	0.035	3.25
SDRH0603-7R6□	7R6	7.6	0.054	2.10
SDRH0603-100□	100	10	0.065	1.70
SDRH0603-120□	120	12	0.070	1.55
SDRH0603-150□	150	15	0.084	1.40
SDRH0603-180□	180	18	0.095	1.32
SDRH0603-220□	220	22	0.128	1.20
SDRH0603-270□	270	27	0.142	1.05
SDRH0603-330□	330	33	0.165	0.97
SDRH0603-390□	390	39	0.210	0.86
SDRH0603-470□	470	47	0.238	0.80
SDRH0603-560□	560	56	0.277	0.73
SDRH0603-680□	680	68	0.304	0.65
SDRH0603-820□	820	82	0.390	0.60
SDRH0603-101□	101	100	0.535	0.54
SDRH0603-121□	121	120	0.550	0.50
SDRH0603-151□	151	150	0.820	0.30
SDRH0603-181□	181	180	1.10	0.28
SDRH0603-221□	221	220	1.45	0.24
SDRH0603-271□	271	270	1.72	0.22
SDRH0603-331□	331	330	2.05	0.20
SDRH0603-391□	391	390	2.52	0.18
SDRH0603-471□	471	470	3.12	0.16
SDRH0603-561□	561	560	3.85	0.12
SDRH0603-681□	681	680	4.52	0.11
SDRH0603-821□	821	820	5.29	0.10
SDRH0603-102□	102	1000	7.22	0.08

□ K=10%,M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH0605 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

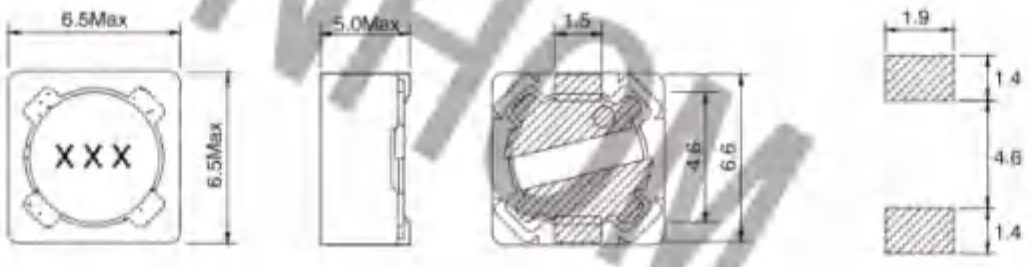
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μH) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH0605-100□	100	10	0.12	1.35
SDRH0605-120□	120	12	0.13	1.20
SDRH0605-150□	150	15	0.18	1.10
SDRH0605-180□	180	18	0.24	1.00
SDRH0605-220□	220	22	0.27	0.91
SDRH0605-270□	270	27	0.30	0.82
SDRH0605-330□	330	33	0.33	0.75
SDRH0605-390□	390	39	0.37	0.69
SDRH0605-470□	470	47	0.52	0.62
SDRH0605-560□	560	56	0.56	0.56
SDRH0605-680□	680	68	0.63	0.52
SDRH0605-820□	820	82	0.71	0.47
SDRH0605-101□	101	100	1.03	0.43
SDRH0605-121□	121	120	1.15	0.39
SDRH0605-151□	151	150	1.68	0.35
SDRH0605-181□	181	180	1.87	0.32
SDRH0605-221□	221	220	2.08	0.29
SDRH0605-271□	271	270	2.37	0.26
SDRH0605-331□	331	330	2.67	0.25
SDRH0605-391□	391	390	2.94	0.22
SDRH0605-471□	471	470	3.93	0.20
SDRH0605-561□	561	560	5.45	0.18
SDRH0605-681□	681	680	7.32	0.17
SDRH0605-821□	821	820	8.24	0.15
SDRH0605-102□	102	1000	9.24	0.14

□ K=10% M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH0703 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

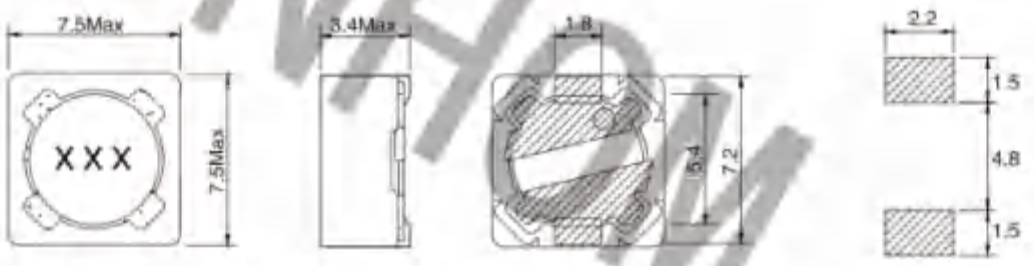
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for partable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (L)(uH) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH0703-100□	100	10	0.076	1.68
SDRH0703-120□	120	12	0.086	1.52
SDRH0703-150□	150	15	0.15	1.33
SDRH0703-180□	180	18	0.17	1.20
SDRH0703-220□	220	22	0.19	1.07
SDRH0703-270□	270	27	0.23	0.96
SDRH0703-330□	330	33	0.28	0.91
SDRH0703-390□	390	39	0.34	0.77
SDRH0703-470□	470	47	0.36	0.76
SDRH0703-560□	560	56	0.47	0.68
SDRH0703-680□	680	68	0.52	0.61
SDRH0703-820□	820	82	0.69	0.57
SDRH0703-101□	101	100	0.79	0.50
SDRH0703-121□	121	120	0.89	0.49
SDRH0703-151□	151	150	1.27	0.43
SDRH0703-181□	181	180	1.45	0.39
SDRH0703-221□	221	220	1.65	0.35
SDRH0703-271□	271	270	2.31	0.32
SDRH0703-331□	331	330	2.62	0.28
SDRH0703-391□	391	390	2.94	0.26
SDRH0703-471□	471	470	4.18	0.24
SDRH0703-561□	561	560	4.67	0.22
SDRH0703-681□	681	680	5.73	0.19
SDRH0703-821□	821	820	6.54	0.18
SDRH0703-102□	102	1000	9.44	0.16

□ K=10%,M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH0704 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

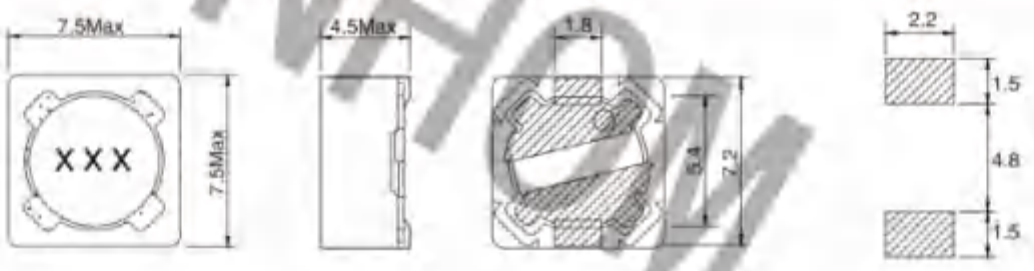
APPLCATIONS:

- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for partable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

Part Number	Marking	Inductance L(u H) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH0704-100□	100	10	0.056	1.84
SDRH0704-120□	120	12	0.06	1.71
SDRH0704-150□	150	15	0.065	1.47
SDRH0704-180□	180	18	0.10	1.31
SDRH0704-220□	220	22	0.11	1.23
SDRH0704-270□	270	27	0.18	1.12
SDRH0704-330□	330	33	0.25	0.96
SDRH0704-390□	390	39	0.26	0.91
SDRH0704-470□	470	47	0.28	0.88
SDRH0704-560□	560	56	0.40	0.75
SDRH0704-680□	680	68	0.43	0.69
SDRH0704-820□	820	82	0.81	0.61
SDRH0704-101□	101	100	0.66	0.60
SDRH0704-121□	121	120	0.86	0.52
SDRH0704-151□	151	150	0.98	0.46
SDRH0704-181□	181	180	1.17	0.42
SDRH0704-221□	221	220	1.66	0.36
SDRH0704-271□	271	270	2.85	0.34
SDRH0704-331□	331	330	3.01	0.32
SDRH0704-391□	391	390	3.62	0.29
SDRH0704-471□	471	470	4.53	0.26
SDRH0704-561□	561	560	5.20	0.23
SDRH0704-681□	681	680	6.00	0.22
SDRH0704-821□	821	820	6.00	0.20
SDRH0704-102□	102	1000	6.00	0.18

□ K=10%,M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH10145 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.7A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

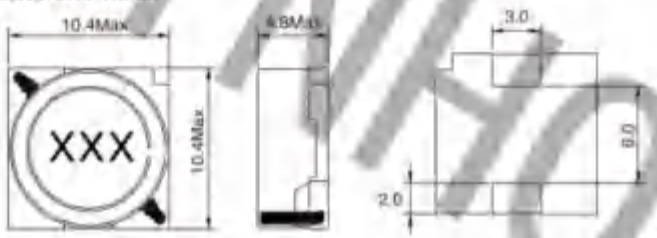
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH10145-3R3□	3.3	1	0.020	3.70
SDRH10145-5R6□	5.6	1	0.027	3.20
SDRH10145-100□	10	1	0.044	2.50
SDRH10145-150□	15	1	0.057	2.20
SDRH10145-220□	22	1	0.070	1.90
SDRH10145-330□	33	1	0.100	1.70
SDRH10145-470□	47	1	0.120	1.50
SDRH10145-680□	68	1	0.168	1.30
SDRH10145-101□	100	1	0.240	1.10
SDRH10145-151□	150	1	0.420	0.81
SDRH10145-221□	220	1	0.564	0.70
SDRH10145-331□	330	1	0.816	0.58
SDRH10145-471□	470	1	1.236	0.47
SDRH10145-681□	680	1	1.920	0.38
SDRH10145-102□	1000	1	3.360	0.29
SDRH10145-122□	1200	1	3.600	0.25
SDRH10145-152□	1500	1	4.080	0.22

□:L K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH103 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.7A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

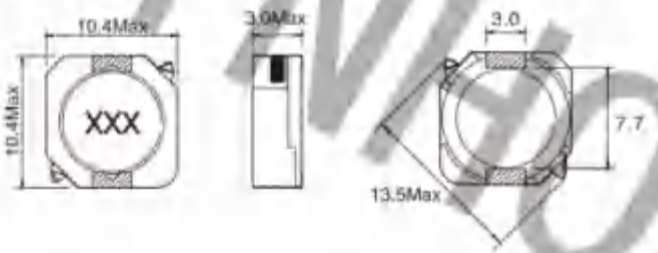
ELECTRICAL CHARACTERISTICS:

Part Number	L (u H)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH103-100□	10	100	0.0581	2.70
SDRH103-120□	12	100	0.0721	2.25
SDRH103-150□	15	100	0.0865	2.22
SDRH103-180□	18	100	0.1161	1.90
SDRH103-220□	22	100	0.1454	1.78
SDRH103-270□	27	100	0.1759	1.63
SDRH103-330□	33	100	0.2134	1.46
SDRH103-390□	39	100	0.2689	1.32
SDRH103-470□	47	100	0.2986	1.18
SDRH103-560□	56	100	0.3358	1.10
SDRH103-680□	68	100	0.4513	1.04
SDRH103-820□	82	100	0.5138	0.94
SDRH103-101□	100	100	0.7000	0.84
SDRH103-121□	120	100	0.7650	0.76
SDRH103-151□	150	100	0.8763	0.70

□:L K=±10% M=±20% N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



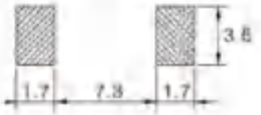
- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

CONSTRUCTION



LAND PATTERNS



SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH104 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 10A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

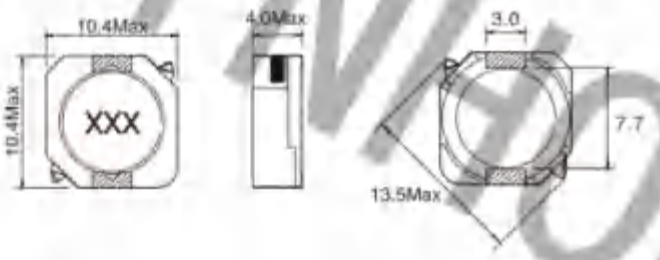
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH104-1R3□	1.3	100	0.008	10.0
SDRH104-2R5□	2.5	100	0.010	7.50
SDRH104-3R8□	3.8	100	0.013	6.00
SDRH104-5R2□	5.2	100	0.022	5.50
SDRH104-7R0□	7.0	100	0.027	4.80
SDRH104-100□	10	100	0.035	4.40
SDRH104-150□	15	100	0.050	3.60
SDRH104-220□	22	100	0.073	2.90
SDRH104-330□	33	100	0.093	2.30
SDRH104-470□	47	100	0.128	2.10
SDRH104-680□	68	100	0.213	1.50
SDRH104-101□	100	100	0.304	1.35
SDRH104-151□	150	100	0.506	1.15
SDRH104-221□	220	100	0.756	0.92
SDRH104-331□	330	100	1.090	0.70

□:L K=±10% M=±20% N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



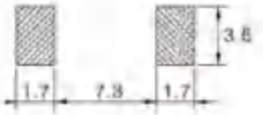
- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Ω- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

CONSTRUCTION



LAND PATTERNS



SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH105 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.45A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems, Power supplier
- LCD, PDP, Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

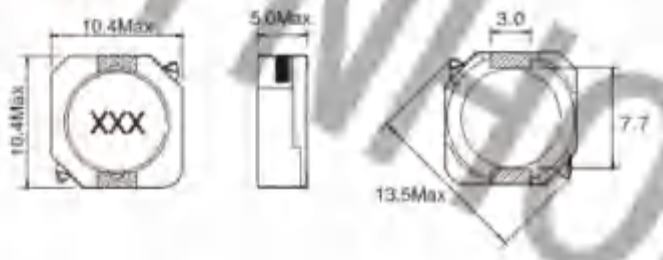
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH105-100□	10	100	0.0258	3.45
SDRH105-120□	12	100	0.0320	3.40
SDRH105-150□	15	100	0.0400	2.83
SDRH105-180□	18	100	0.0460	2.62
SDRH105-220□	22	100	0.0585	2.44
SDRH105-270□	27	100	0.0654	2.24
SDRH105-330□	33	100	0.0814	1.98
SDRH105-390□	39	100	0.1031	1.70
SDRH105-470□	47	100	0.1221	1.56
SDRH105-560□	56	100	0.1448	1.29
SDRH105-680□	68	100	0.1930	1.36
SDRH105-820□	82	100	0.2194	1.20
SDRH105-101□	100	100	0.2470	1.09
SDRH105-121□	120	100	0.2984	1.00
SDRH105-151□	150	100	0.3551	0.91
SDRH105-181□	180	100	0.3943	0.84
SDRH105-221□	220	100	0.4835	0.75
SDRH105-271□	270	100	0.6325	0.68
SDRH105-331□	330	100	0.7800	0.60
SDRH105-391□	390	100	0.9575	0.57
SDRH105-471□	470	100	1.2204	0.50
SDRH105-561□	560	100	1.3524	0.47
SDRH105-681□	680	100	1.6192	0.43
SDRH105-821□	820	100	1.6944	0.39
SDRH105-102□	1000	100	1.9484	0.35

□:L, K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

CONSTRUCTION



LAND PATTERNS



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH12 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 12A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems, Power supplies
- LCD, PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS@25℃

Inductance		DC Resistance(Ω) ±30%			DC-saturation allowable current(A) Typ			Temp. rise allowable current(A) Typ		
Code	uH	SDRH1242	SDRH1257	SDRH1277	SDRH1242	SDRH1257	SDRH1277	SDRH1242	SDRH1257	SDRH1277
1R5	1.5	0.006			12.0			6.80		
2R2	2.2	0.008	0.006	0.007	9.00	11.4	11.6	5.95	6.80	6.85
3R3	3.3	0.010	0.008	0.008	7.20	9.40	10.0	5.30	5.70	6.05
4R3	4.3		0.009	0.010		8.10	9.40		5.45	5.60
4R7	4.7	0.013			6.60			4.85		
5R6	5.6		0.011	0.011		7.10	8.50		5.00	5.30
6R2	6.2	0.014			5.40			4.50		
7R5	7.5	0.016	0.012	0.013	4.93	6.20	7.40	4.20	4.70	4.80
100	10	0.021	0.017	0.014	4.51	5.80	6.30	3.60	4.00	4.30
120	12	0.026	0.022	0.016	4.00	5.00	6.00	3.30	3.70	4.15
150	15	0.029	0.026	0.019	3.60	4.40	4.80	3.10	3.50	3.85
180	18	0.038	0.029	0.021	3.10	4.00	4.50	2.70	2.95	3.70
220	22	0.045	0.033	0.024	2.81	3.71	4.50	2.50	2.65	3.25
270	27	0.056	0.043	0.030	2.55	3.20	4.00	2.25	2.55	3.00
330	33	0.065	0.053	0.035	2.25	2.95	3.55	1.95	2.35	2.85
390	39	0.084	0.056	0.046	2.10	2.75	3.65	1.75	2.20	2.50
470	47	0.10	0.069	0.051	1.82	2.50	3.35	1.55	1.85	2.30
560	56	0.12	0.08	0.062	1.75	2.30	3.50	1.44	1.60	2.10
680	68	0.14	0.10	0.077	1.65	2.05	2.40	1.35	1.65	1.80
820	82	0.16	0.13	0.09	1.48	1.85	2.35	1.23	1.40	1.80
101	100	0.20	0.14	0.11	1.33	1.65	2.20	1.15	1.35	1.60
121	120	0.23	0.16	0.13	1.24	1.50	1.90	1.02	1.20	1.40
151	150	0.28	0.25	0.18	1.05	1.35	1.80	0.92	1.05	1.20
181	180	0.35	0.25	0.19	0.98	1.20	1.45	0.82	1.00	1.15
221	220	0.45	0.32	0.24	0.93	1.10	1.35	0.73	0.88	1.05
271	270	0.55	0.38	0.31	0.82	1.00	1.25	0.66	0.81	0.91
331	330	0.67	0.47	0.34	0.70	0.90	1.00	0.59	0.70	0.84
391	390	0.82	0.54	0.40	0.65	0.80	0.90	0.52	0.67	0.80
471	470	0.92	0.68	0.51	0.53	0.75	0.80	0.48	0.61	0.70
561	560	1.10	0.79	0.56	0.54	0.70	0.73	0.45	0.54	0.65
681	680	1.37	0.95	0.73	0.5	0.65	0.68	0.40	0.50	0.60
821	820	1.67	1.15	0.87	0.45	0.55	0.62	0.36	0.44	0.55
102	1000	1.87	1.42	1.02	0.43	0.50	0.55	0.34	0.40	0.50

- Measurement frequency for Inductance: 100KHz
- DC saturation allowable current: value of inductance decrease within 30%
- Temperature rise allowable current: A rise in temperature of core surface is within 40℃
- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter Ω- HP4342A - SRF--HP4191A IDCMax
- Operating temperature: -40℃ to +105℃
- Storage temperature: -40℃ to +105℃

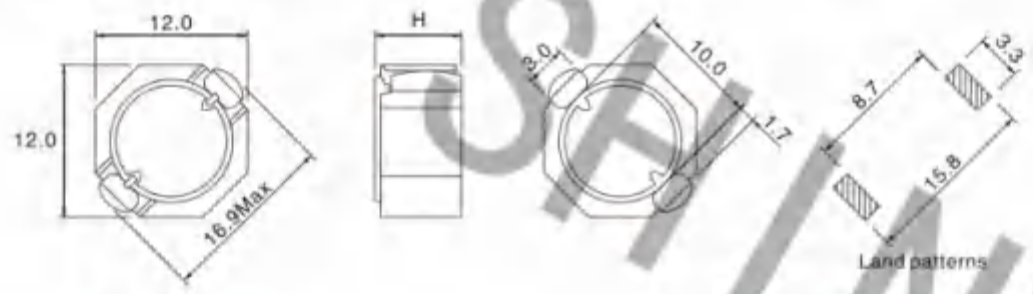
Tolerance	SDRH1242	SDRH1257	SDRH1277
±30%(N)	1.3-7.5uH	2.2-7.5uH	2.2-7.5uH
±20%(M)	10-1000uH		

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

SDRH12 Seires

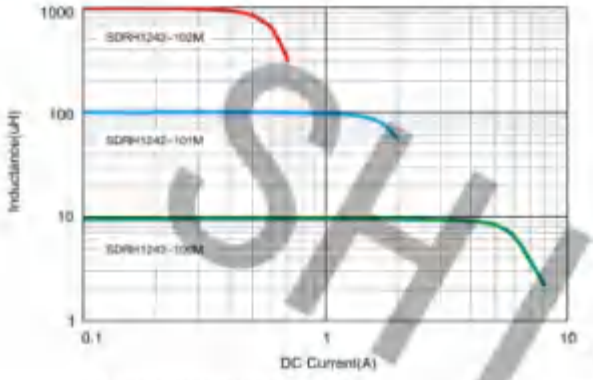
PHYSICAL CHARACTERISTICS & TECHNICAL INFORMATION

Dimensions(mm)

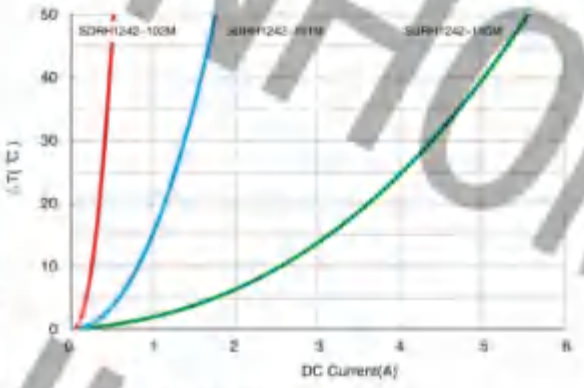


P/N	H
1242	4.5max
1257	6.0max
1277	8.0max

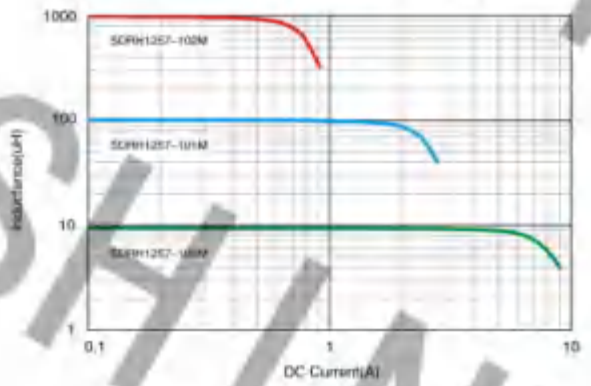
Characteristics of DC Superposition



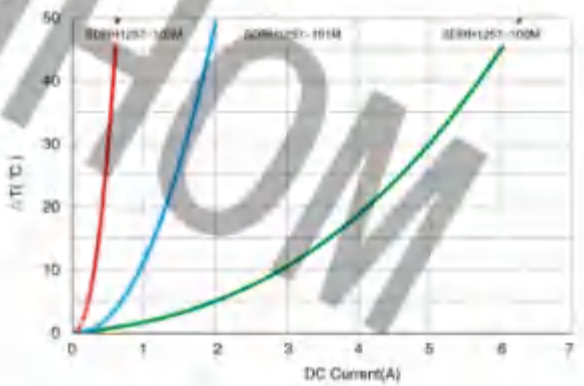
Characteristics of Temperature rise



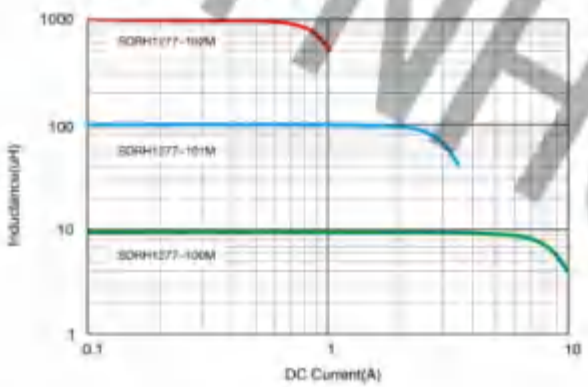
Characteristics of DC Superposition



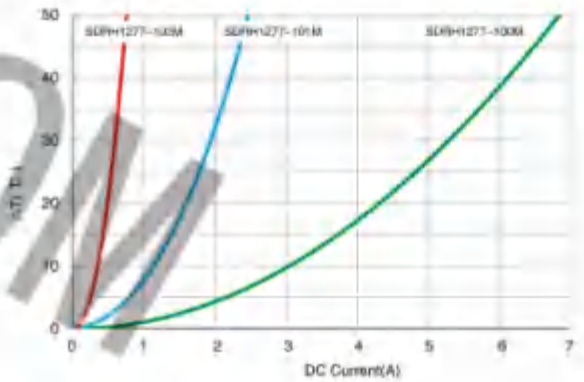
Characteristics of Temperature rise



Characteristics of DC Superposition



Characteristics of Temperature rise



SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1204 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

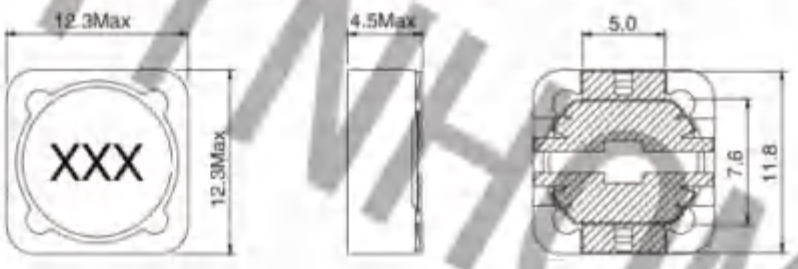
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μH) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH1204-100□	100	10	0.028	4.50
SDRH1204-120□	120	12	0.039	4.00
SDRH1204-150□	150	15	0.050	3.20
SDRH1204-180□	180	18	0.057	3.10
SDRH1204-220□	220	22	0.066	2.90
SDRH1204-270□	270	27	0.080	2.80
SDRH1204-330□	330	33	0.097	2.70
SDRH1204-390□	390	39	0.132	2.10
SDRH1204-470□	470	47	0.150	1.90
SDRH1204-560□	560	58	0.190	1.80
SDRH1204-680□	680	68	0.220	1.50
SDRH1204-820□	820	82	0.260	1.30
SDRH1204-101□	101	100	0.308	1.20
SDRH1204-121□	121	120	0.380	1.10
SDRH1204-151□	151	150	0.530	0.95
SDRH1204-181□	181	180	0.620	0.85
SDRH1204-221□	221	220	0.700	0.80
SDRH1204-271□	271	270	0.870	0.60
SDRH1204-331□	331	330	0.990	0.50

□ K=10% M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1205 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

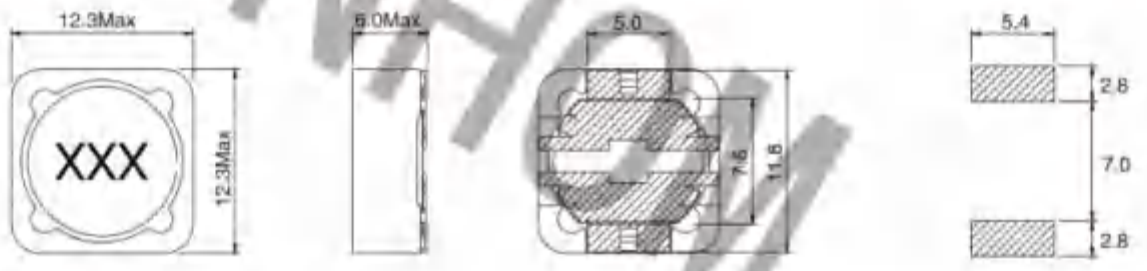
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μH) @100KHz,0.1V	DCR(Ω)	IDC(A)
SDRH1205-100□	100	10	0.025	4.00
SDRH1205-120□	120	12	0.027	3.50
SDRH1205-150□	150	15	0.030	3.30
SDRH1205-180□	180	18	0.030	3.00
SDRH1205-220□	220	22	0.036	2.80
SDRH1205-270□	270	27	0.051	2.30
SDRH1205-330□	330	33	0.057	2.10
SDRH1205-390□	390	39	0.068	2.00
SDRH1205-470□	470	47	0.075	1.80
SDRH1205-560□	560	56	0.11	1.70
SDRH1205-680□	680	68	0.12	1.50
SDRH1205-820□	820	82	0.14	1.40
SDRH1205-101□	101	100	0.16	1.30
SDRH1205-121□	121	120	0.17	1.10
SDRH1205-151□	151	150	0.23	1.00
SDRH1205-181□	181	180	0.28	0.90
SDRH1205-221□	221	220	0.40	0.80
SDRH1205-271□	271	270	0.46	0.75
SDRH1205-331□	331	330	0.51	0.68
SDRH1205-391□	391	390	0.69	0.65
SDRH1205-471□	471	470	0.77	0.58
SDRH1205-561□	561	560	0.86	0.54
SDRH1205-681□	681	680	1.20	0.48
SDRH1205-821□	821	820	1.34	0.43
SDRH1205-102□	102	1000	1.53	0.40

□ K=10%,M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1207 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

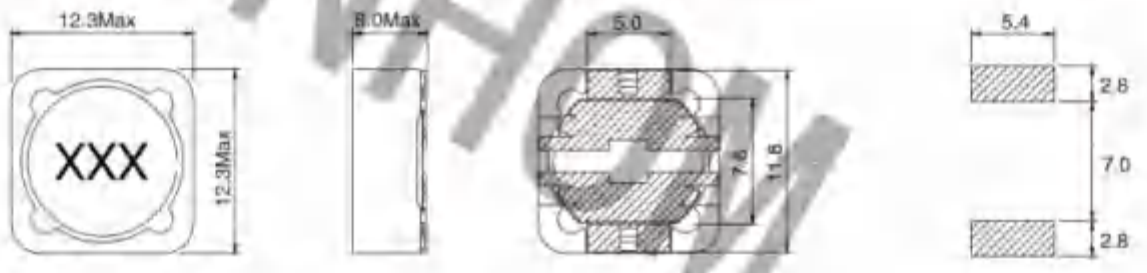
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μ.H) @100KHz/0.1V	DCR(Ω)	IDC(A)
SDRH1207-1R2□	1R2	1.2	0.007	9.80
SDRH1207-2R4□	2R4	2.4	0.0115	8.00
SDRH1207-3R5□	3R5	3.5	0.0135	7.50
SDRH1207-4R7□	4R7	4.7	0.0158	6.80
SDRH1207-6R1□	6R1	6.1	0.0176	6.60
SDRH1207-7R6□	7R6	7.6	0.0200	5.90
SDRH1207-100□	100	10	0.0220	5.40
SDRH1207-120□	120	12	0.0243	4.90
SDRH1207-150□	150	15	0.0270	4.50
SDRH1207-180□	180	18	0.0392	3.90
SDRH1207-220□	220	22	0.0432	3.60
SDRH1207-270□	270	27	0.0459	3.40
SDRH1207-330□	330	33	0.0648	3.00
SDRH1207-390□	390	39	0.0729	2.75
SDRH1207-470□	470	47	0.100	2.50
SDRH1207-560□	560	56	0.110	2.35
SDRH1207-680□	680	68	0.140	2.10
SDRH1207-820□	820	82	0.160	1.95
SDRH1207-101□	101	100	0.220	1.70
SDRH1207-121□	121	120	0.250	1.60
SDRH1207-151□	151	150	0.280	1.42
SDRH1207-181□	181	180	0.360	1.30
SDRH1207-221□	221	220	0.390	1.16
SDRH1207-271□	271	270	0.560	1.06
SDRH1207-331□	331	330	0.640	0.95
SDRH1207-391□	391	390	0.700	0.88
SDRH1207-471□	471	470	0.980	0.79
SDRH1207-561□	561	560	1.070	0.73
SDRH1207-681□	681	680	1.460	0.67
SDRH1207-821□	821	820	1.840	0.62
SDRH1207-102□	102	1000	1.820	0.55

□ K=10%,M=20%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temerature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-25℃~+85℃.



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1209 SERIES

FEATURES:

- Shielded Structure
- Height of 10mm
- Current rating up to 11A
- RoHScompliant

OPTIONS:

- Tape & Reel is Standard (Qty:250pcs.) Bulk packaging available for Smaller Quantities
- Tolerance: K=±10%, M=±20% is Standard, Tighter Tolerances Available

COMMON APPLCATIONS:

- Input/Output of DC-DC converter
- DC/DC converter
- Power supplies for: portable communication equipment
- Camcorder
- LCD TV, PDA, PDP

ELECTRICAL CHARACTERISTICS: 25℃

Part Number	Inductance (uH) 1KHz,0.25V	Tol. %	Q Ref.	Q Test Freq (MHz)	SRF (MHz) Typ.	DCR Max (mΩ)	Irms (A)	Isat (A)
SDRH1209-1R0Y	1.0	±30	10	7.96	85	6.0	11.0	16.5
SDRH1209-1R8Y	1.8	±30	10	7.96	56	7.5	10.2	15.2
SDRH1209-2R2Y	2.2	±30	10	7.96	54	9.0	9.5	12.2
SDRH1209-3R3Y	3.3	±30	15	7.96	44	10	9.0	10.6
SDRH1209-4R7Y	4.7	±30	8	7.96	35	12	8.5	8.8
SDRH1209-5R6Y	5.6	±30	12	7.96	28	14	8.0	8.6
SDRH1209-6R8Y	6.8	±30	12	7.96	20	15	7.9	8.3
SDRH1209-8R2Y	8.2	±30	11	7.96	16	17	7.3	7.5
SDRH1209-100M	10	±20	16	2.52	12	18	6.5	6.5
SDRH1209-120M	12	±20	14	2.52	18	22	6.3	6.1
SDRH1209-150M	15	±20	16	2.52	10.5	32	5.8	5.3
SDRH1209-180M	18	±20	13	2.52	8.0	35	5.5	5.1
SDRH1209-220M	22	±20	16	2.52	8.0	38	5.2	4.5
SDRH1209-270M	27	±20	16	2.52	5.5	40	5.0	4.2
SDRH1209-330M	33	±20	16	2.52	6.5	52	4.4	3.7
SDRH1209-390M	39	±20	16	2.52	4.5	68	4.2	3.5
SDRH1209-470M	47	±20	16	2.52	4.3	72	3.8	3.1
SDRH1209-560M	56	±20	8	2.52	4.0	90	3.4	2.9
SDRH1209-680M	68	±20	12	2.52	3.8	102	3.0	2.7
SDRH1209-820M	82	±20	15	2.52	3.5	112	2.8	2.5
SDRH1209-101M	100	±20	16	0.796	3.0	135	2.5	2.2
SDRH1209-121M	120	±20	13	0.796	2.6	170	2.3	1.9
SDRH1209-151M	150	±20	12	0.796	2.2	190	2.2	1.8
SDRH1209-181M	180	±20	14	0.796	1.8	250	1.9	1.6
SDRH1209-221M	220	±20	15	0.796	1.8	315	1.7	1.5
SDRH1209-271M	270	±20	15	0.796	1.8	410	1.5	1.3
SDRH1209-331M	330	±20	14	0.796	1.8	450	1.4	1.2
SDRH1209-391M	390	±20	16	0.796	1.3	600	1.3	1.1
SDRH1209-471M	470	±20	12	0.796	0.85	820	1.2	1.0
SDRH1209-561M	560	±20	13	0.796	0.85	900	1.1	0.95
SDRH1209-681M	680	±20	11	0.796	0.85	1200	1.0	0.85
SDRH1209-821M	820	±20	6	0.796	0.85	1320	0.85	0.75
SDRH1209-102M	1000	±20	22	0.796	0.85	1650	0.75	0.70

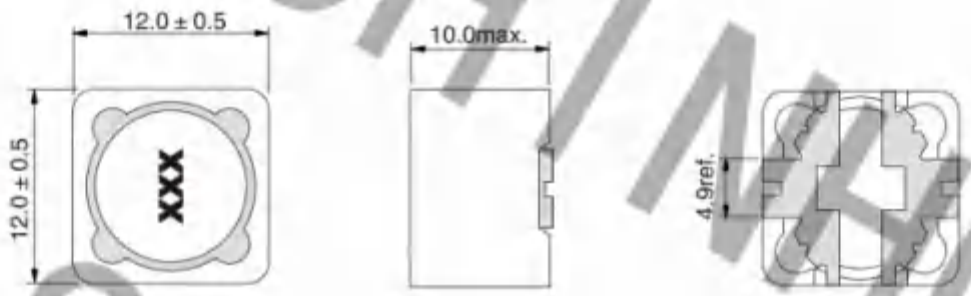
Operating Temperature ..... -40℃ to +125℃(Temperature rise included)
Storage Temperature ..... -40℃ to +125℃
Resistance to Soldering Heat ..... 260℃ for 5 sec.
Rated Current ..... Inductance drop of 20 % typ. at Isat
Temperature Rise ..... 40℃ typ. at Irms

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1209 SERIES



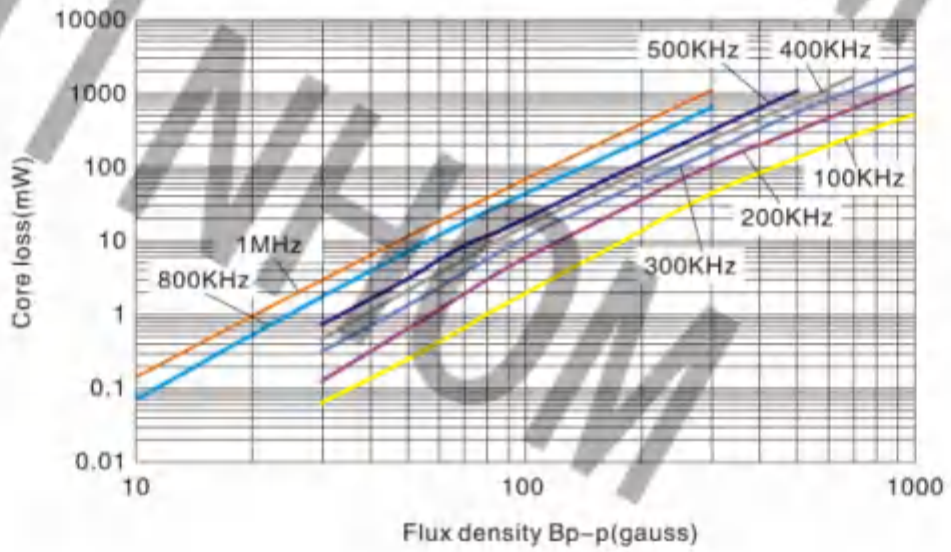
PRODUCT DIMENSIONS:



SCHEMATIC & RECOMMENDED LAYOUT:



CORE LOSS VS. FLUX DENSITY:



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MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH12555 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.6A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

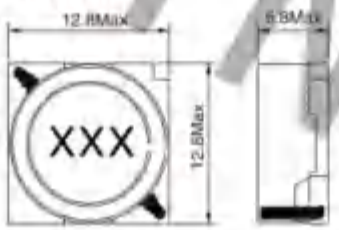
ELECTRICAL CHARACTERISTICS:

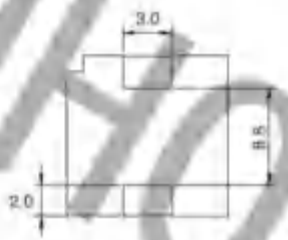
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH12555-6R0□	6.0	1	0.020	3.60
SDRH12555-100□	10	1	0.026	3.40
SDRH12555-150□	15	1	0.032	2.80
SDRH12555-220□	22	1	0.041	2.30
SDRH12555-330□	33	1	0.050	1.90
SDRH12555-470□	47	1	0.075	1.60
SDRH12555-680□	68	1	0.100	1.30
SDRH12555-101□	100	1	0.150	1.10
SDRH12555-151□	150	1	0.230	0.88
SDRH12555-221□	220	1	0.330	0.72
SDRH12555-331□	330	1	0.492	0.59
SDRH12555-471□	470	1	0.624	0.49
SDRH12555-681□	680	1	0.912	0.43
SDRH12555-102□	1000	1	1.344	0.34
SDRH12555-152□	1500	1	2.076	0.29

□:J, K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm





CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH12565 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 6.2A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

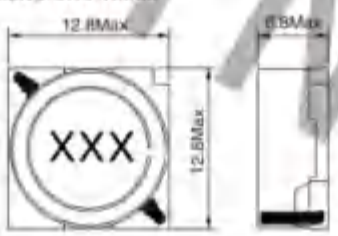
ELECTRICAL CHARACTERISTICS:

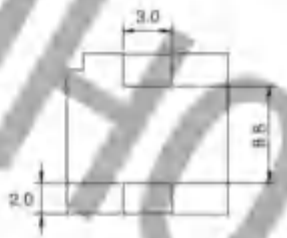
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH12565-2R2□	2.2	1	0.014	6.20
SDRH12565-4R2□	4.2	1	0.018	5.50
SDRH12565-7R0□	7.0	1	0.022	5.00
SDRH12565-100□	10	1	0.025	4.80
SDRH12565-150□	15	1	0.029	4.40
SDRH12565-220□	22	1	0.038	3.80
SDRH12565-330□	33	1	0.049	3.40
SDRH12565-470□	47	1	0.070	2.80
SDRH12565-680□	68	1	0.095	2.40
SDRH12565-101□	100	1	0.150	1.90
SDRH12565-151□	150	1	0.260	1.40
SDRH12565-221□	220	1	0.330	1.20
SDRH12565-331□	330	1	0.600	0.95

□:1. K= ± 10%, M= ± 20%, N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

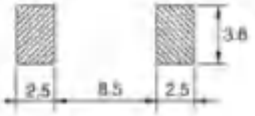




CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmetar
  Q- HP4342A - SRF-HP4191A
  IDCMax. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH12575 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 8.2A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

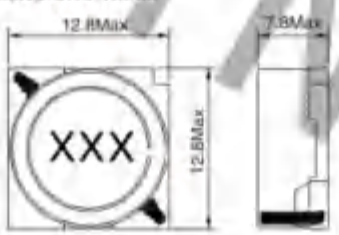
ELECTRICAL CHARACTERISTICS:

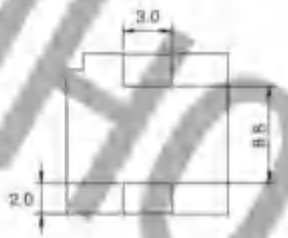
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH12575-1R2□	1.2	1	0.009	8.20
SDRH12575-2R7□	2.7	1	0.012	7.00
SDRH12575-3R9□	3.9	1	0.013	6.70
SDRH12575-5R6□	5.6	1	0.014	6.30
SDRH12575-6R8□	6.8	1	0.016	5.90
SDRH12575-100□	10	1	0.019	5.40
SDRH12575-150□	15	1	0.023	5.00
SDRH12575-220□	22	1	0.032	4.00
SDRH12575-330□	33	1	0.048	3.20
SDRH12575-470□	47	1	0.064	2.70
SDRH12575-680□	68	1	0.094	2.00
SDRH12575-101□	100	1	0.150	1.90
SDRH12575-151□	150	1	0.210	1.50
SDRH12575-221□	220	1	0.310	1.30
SDRH12575-331□	330	1	0.410	1.00

□:L K=±10% M=±20% N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

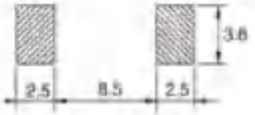




CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1508 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

COMMON APPLICATIONS:

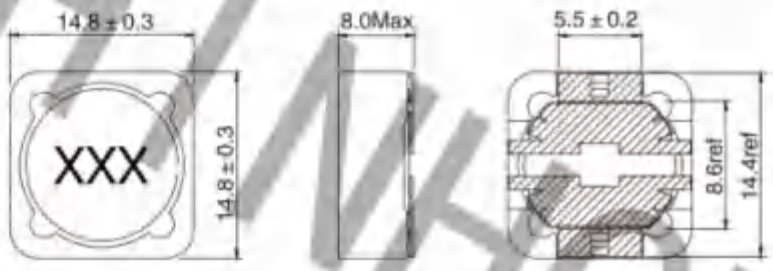
- Ideal for a variety of DC-DC converter
- DC/DC converter
- Power supplies for:
  portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

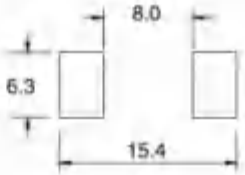
ELECTRICAL CHARACTERISTICS:

Part Number	Marking	Inductance L0(μH) ±20% @0Adc	Saturation current DC Amps Isat(A)	DCR Max. (Ω).
SDRH1508-100M	100	10	6.6	0.038
SDRH1508-150M	150	15	6.0	0.04
SDRH1508-220M	220	22	5.5	0.048
SDRH1508-330M	330	33	4.6	0.05
SDRH1508-470M	470	47	4.0	0.1
SDRH1508-680M	680	68	3.8	0.15
SDRH1508-101M	101	100	2.5	0.135
SDRH1508-221M	221	220	2.0	0.22
SDRH1508-471M	471	470	1.5	0.5
SDRH1508-102M	102	1000	0.85	1.9
SDRH1508-222M	222	2200	0.62	2.42
SDRH1508-472M	472	4700	0.44	4.0
SDRH1508-682M	682	6800	0.35	5.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)





Winding



Notes

- Test Frequency : 100KHz / 0.1V
- Inductance is measured with HP-4284A LCR meter or equivalent.
- All test data is referenced to 25℃ ambient.
- Rated current is that which causes a 20% inductance reduction of the initial value, or coil temperature to rise by 40℃,whichever is smaller.
- Operating Temperature Range -40℃ to +125℃

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1510 SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

APPLCATIONS:

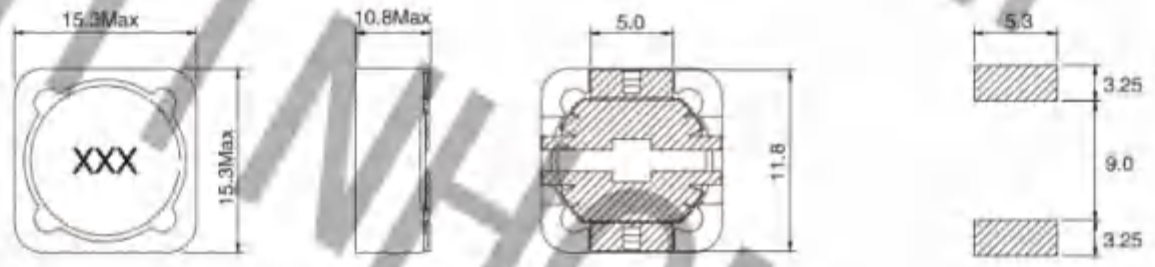
- Ideal for a variety of DC-DC converter Inductors Applications.
- DC/DC converter
- Power supplies for portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

STANDARD SPECIFICATION:

Part Number	Marking	Inductance (μH) @100KHz,0.1V	DCR(mΩ)	IDC(A)
SDRH1510-4R7N	4R7	4.7	10.4	8.5
SDRH1510-6R8N	6R8	6.8	15.5	7.8
SDRH1510-100M	100	10	18	7.5
SDRH1510-150M	150	15	23	7
SDRH1510-180M	180	18	29	6.8
SDRH1510-220M	220	22	31	6.2
SDRH1510-270M	270	27	33	6.0
SDRH1510-300M	300	30	35	5.8
SDRH1510-330M	330	33	37	5.5
SDRH1510-360M	360	36	38	5.3
SDRH1510-390M	390	39	40	5.0
SDRH1510-470M	470	47	45	4.6
SDRH1510-680M	680	68	48	4.2
SDRH1510-820M	820	82	56	3.5
SDRH1510-101M	101	100	82	3.0
SDRH1510-121M	121	120	110	2.6
SDRH1510-151M	151	150	131	2.5

K=10%,M=20%,N=30%

PHYSICAL CHARACTERISTICS:



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- L≤8.2uH, 100KHz,0.25V
  L>8.2uH, 1KHz,0.25V
- Maximum allowable DC current is that which causes a 30% inductance reduction of the initial value, or coil temperature to rise by 40℃,whichever is smaller.(Reference ambient temperature 20℃)
- Operating temperature:-40℃~+105℃(including self temp. rise).

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH2D11 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 0.9A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

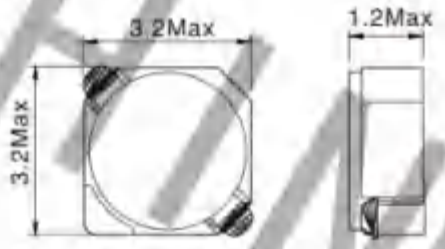
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDRH2D11-1R5□	1.5	100	0.068	0.90
SDRH2D11-2R2□	2.2	100	0.096	0.78
SDRH2D11-3R3□	3.3	100	0.123	0.60
SDRH2D11-4R7□	4.7	100	0.170	0.50
SDRH2D11-6R8□	6.8	100	0.260	0.44
SDRH2D11-100□	10	100	0.400	0.35
SDRH2D11-220□	22	100	1.000	0.25

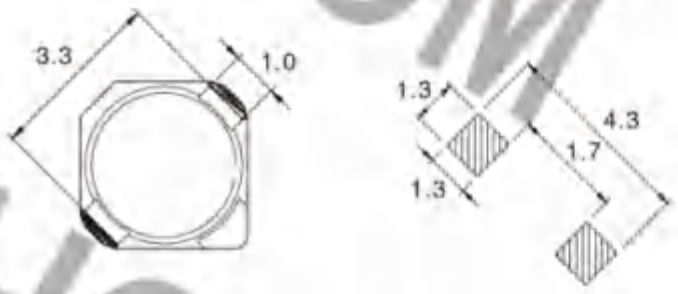
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



LAND PATTERNS



CONSTRUCTION



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH2D18 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 0.85A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems, Power supplier
- LCD, PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

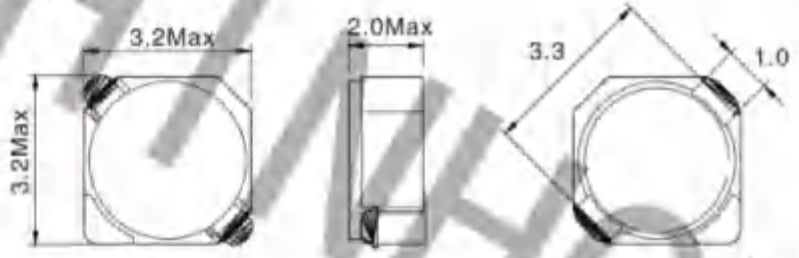
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDRH2D18-2R2□	2.2	100	0.041	0.85
SDRH2D18-3R3□	3.3	100	0.054	0.75
SDRH2D18-4R7□	4.7	100	0.078	0.63
SDRH2D18-6R8□	6.8	100	0.106	0.52
SDRH2D18-100□	10	100	0.180	0.43
SDRH2D18-150□	15	100	0.220	0.35
SDRH2D18-220□	22	100	0.320	0.30
SDRH2D18-330□	33	100	0.460	0.24
SDRH2D18-470□	47	100	0.660	0.20

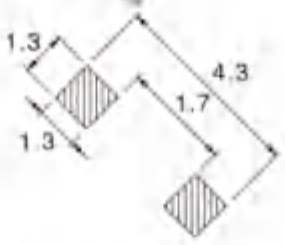
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



LAND PATTERNS



CONSTRUCTION

- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH3818 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.8A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH3818-1R0□	1.0	100	0.030	1.80
SDRH3818-2R2□	2.2	100	0.058	1.50
SDRH3818-3R3□	3.3	100	0.064	1.30
SDRH3818-4R7□	4.7	100	0.146	1.10
SDRH3818-5R6□	5.6	100	0.176	0.95
SDRH3818-6R8□	6.8	100	0.238	0.90
SDRH3818-8R2□	8.2	100	0.272	0.80
SDRH3818-100□	10	1	0.299	0.70
SDRH3818-150□	15	1	0.472	0.61
SDRH3818-220□	22	1	0.592	0.52
SDRH3818-270□	27	1	0.630	0.44
SDRH3818-330□	33	1	1.075	0.43
SDRH3818-470□	47	1	1.309	0.34
SDRH3818-680□	68	1	2.613	0.25
SDRH3818-820□	82	1	2.950	0.20
SDRH3818-101□	100	1	3.255	0.19
SDRH3818-151□	150	1	3.500	0.12

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

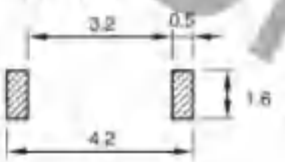
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH3D16 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.8A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

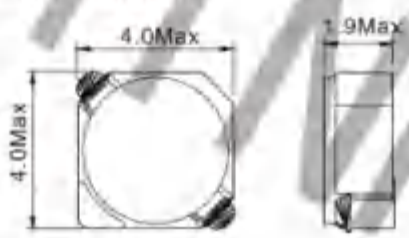
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDRH3D16-1R0□	1.0	100	0.048	1.80
SDRH3D16-1R5□	1.5	100	0.054	1.55
SDRH3D16-2R2□	2.2	100	0.072	1.20
SDRH3D16-3R3□	3.3	100	0.105	1.03
SDRH3D16-3R9□	3.9	100	0.118	1.02
SDRH3D16-4R7□	4.7	100	0.132	0.95
SDRH3D16-5R6□	5.6	100	0.148	0.75
SDRH3D16-6R8□	6.8	100	0.195	0.73
SDRH3D16-8R2□	8.2	100	0.250	0.65
SDRH3D16-100□	10	100	0.275	0.58
SDRH3D16-120□	12	100	0.312	0.50
SDRH3D16-150□	15	100	0.412	0.46
SDRH3D16-180□	18	100	0.462	0.43
SDRH3D16-220□	22	100	0.600	0.40
SDRH3D16-270□	27	100	0.712	0.35
SDRH3D16-330□	33	100	0.925	0.32
SDRH3D16-390□	39	100	1.062	0.28
SDRH3D16-470□	47	100	1.175	0.26

Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



LAND PATTERNS



CONSTRUCTION



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q– HP4342A – SRF–HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: –40℃ to +105℃
- Storage Temperature: –40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL–STD–202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH4D18 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.72A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

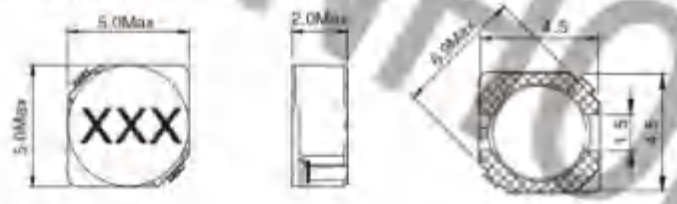
ELECTRICAL CHARACTERISTICS:

Part Number	L uH	Test Freq KHz	DCR Ω Max	IDC Max A
SDRH4D18-1R0□	1.0	100	0.034	1.72
SDRH4D18-2R2□	2.2	100	0.045	1.32
SDRH4D18-2R7□	2.7	100	0.056	1.28
SDRH4D18-3R3□	3.3	100	0.070	1.04
SDRH4D18-3R9□	3.9	100	0.082	0.88
SDRH4D18-4R7□	4.7	100	0.093	0.84
SDRH4D18-5R6□	5.6	100	0.112	0.80
SDRH4D18-6R8□	6.8	100	0.140	0.76
SDRH4D18-8R2□	8.2	100	0.174	0.68
SDRH4D18-100□	10	100	0.200	0.61
SDRH4D18-120□	12	100	0.229	0.56
SDRH4D18-150□	15	100	0.291	0.50
SDRH4D18-180□	18	100	0.295	0.48
SDRH4D18-220□	22	100	0.397	0.41
SDRH4D18-270□	27	100	0.441	0.35
SDRH4D18-330□	33	100	0.525	0.32
SDRH4D18-390□	39	100	0.60	0.30
SDRH4D18-470□	47	100	0.72	0.28
SDRH4D18-560□	56	100	0.83	0.25
SDRH4D18-680□	68	100	0.97	0.23
SDRH4D18-820□	82	100	1.53	0.21
SDRH4D18-101□	100	100	1.68	0.20
SDRH4D18-121□	120	100	2.06	0.19
SDRH4D18-151□	150	100	2.58	0.17
SDRH4D18-181□	180	100	2.95	0.16
SDRH4D18-221□	220	100	4.12	0.15
SDRH4D18-271□	270	100	4.70	0.13
SDRH4D18-331□	330	100	5.37	0.12
SDRH4D18-391□	390	100	8.91	0.11

□Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

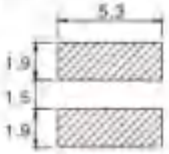
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:ChenTech 1880 Milliohmmeter
  Q= HP4342A ~ SRF=HP4191A
  IDC:Max. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
  Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH4D28 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.56A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems, Power supplier
- LCD, PDP, Televisions
- Hard Disk Drives, Tonset, XDSL
- Network Systems
- Computer Peripheral Equipment

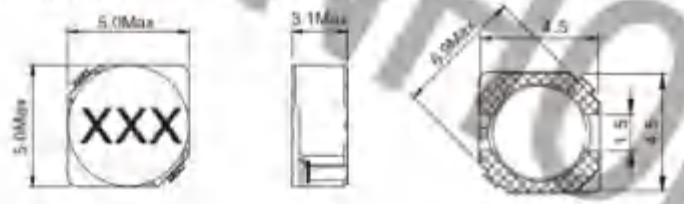
ELECTRICAL CHARACTERISTICS:

Part Number	L uH	Test Freq KHz	DCR mΩ Max	IDC Max A
SDRH4D28-1R0□	1.0	100	25.3	2.56
SDRH4D28-1R5□	1.5	100	31.5	2.36
SDRH4D28-1R8□	1.8	100	36.9	2.20
SDRH4D28-2R1□	2.1	100	55.2	1.60
SDRH4D28-3R3□	3.3	100	57.6	1.57
SDRH4D28-3R9□	3.9	100	66.4	1.44
SDRH4D28-4R7□	4.7	100	72.0	1.32
SDRH4D28-5R6□	5.6	100	80.0	1.17
SDRH4D28-6R8□	6.8	100	92.0	1.12
SDRH4D28-8R2□	8.2	100	96.0	1.04
SDRH4D28-100□	10	100	103	1.00
SDRH4D28-120□	12	100	128	0.84
SDRH4D28-150□	15	100	144	0.76
SDRH4D28-180□	18	100	186	0.72
SDRH4D28-220□	22	100	218	0.70
SDRH4D28-270□	27	100	252	0.65
SDRH4D28-330□	33	100	285	0.56
SDRH4D28-390□	39	100	408	0.50
SDRH4D28-470□	47	100	440	0.48
SDRH4D28-560□	56	100	561	0.41
SDRH4D28-680□	68	100	630	0.35
SDRH4D28-820□	82	100	900	0.32
SDRH4D28-101□	100	100	1030	0.29
SDRH4D28-121□	120	100	1520	0.27
SDRH4D28-151□	150	100	1680	0.24
SDRH4D28-181□	180	100	1900	0.22

□Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

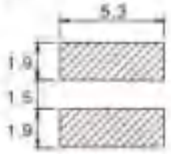
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:ChenHwa 1880 Milliohmmeter
  Q= HP4342A ~ SRF=HP4191A
  IDC:Max. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
  Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH5018 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.8A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH5018-1R2□	1.2	100	0.054	1.80
SDRH5018-1R8□	1.8	100	0.065	1.60
SDRH5018-2R3□	2.3	100	0.076	1.50
SDRH5018-3R6□	3.6	100	0.097	1.20
SDRH5018-4R3□	4.3	100	0.100	1.10
SDRH5018-5R1□	5.1	100	0.130	1.00
SDRH5018-6R8□	6.8	100	0.150	0.94
SDRH5018-100□	10	100	0.220	0.80
SDRH5018-150□	15	100	0.325	0.64
SDRH5018-180□	18	100	0.360	0.56
SDRH5018-220□	22	100	0.540	0.49
SDRH5018-330□	33	100	0.770	0.41
SDRH5018-470□	47	100	1.120	0.33

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

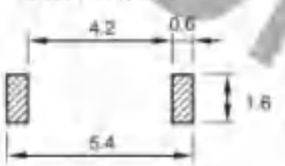
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH5020 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.15A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems, Power supplier
- LCD, PDP, Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH5020-1R2□	1.2	100	0.044	2.15
SDRH5020-2R2□	2.2	100	0.059	1.83
SDRH5020-3R3□	3.3	100	0.062	1.50
SDRH5020-4R7□	4.7	100	0.087	1.14
SDRH5020-6R8□	6.8	100	0.105	0.95
SDRH5020-8R2□	8.2	100	0.139	0.90
SDRH5020-100□	10	1	0.150	0.76
SDRH5020-150□	15	1	0.210	0.63
SDRH5020-220□	22	1	0.275	0.56
SDRH5020-330□	33	1	0.455	0.44
SDRH5020-470□	47	1	0.730	0.35
SDRH5020-680□	68	1	0.935	0.30
SDRH5020-101□	100	1	1.500	0.23
SDRH5020-121□	120	1	1.910	0.22
SDRH5020-151□	150	1	2.680	0.21
SDRH5020-181□	180	1	3.040	0.20
SDRH5020-221□	220	1	3.520	0.195
SDRH5020-271□	270	1	4.380	0.193
SDRH5020-331□	330	1	5.560	0.190
SDRH5020-471□	470	1	7.820	0.180

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

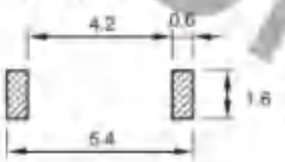
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH5028 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 4.0A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L (uH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH5028-1R0□	1.0	100	0.015	4.00
SDRH5028-2R2□	2.2	100	0.029	2.41
SDRH5028-3R3□	3.3	100	0.034	2.36
SDRH5028-4R7□	4.7	100	0.045	1.87
SDRH5028-5R6□	5.6	100	0.052	1.60
SDRH5028-6R8□	6.8	100	0.068	1.51
SDRH5028-100□	10	1	0.090	1.33
SDRH5028-150□	15	1	0.142	1.05
SDRH5028-220□	22	1	0.208	0.86
SDRH5028-330□	33	1	0.257	0.72
SDRH5028-470□	47	1	0.352	0.62
SDRH5028-680□	68	1	0.525	0.51
SDRH5028-101□	100	1	0.801	0.43
SDRH5028-121□	120	1	0.850	0.34
SDRH5028-151□	150	1	1.100	0.26
SDRH5028-181□	180	1	1.190	0.24
SDRH5028-221□	220	1	1.530	0.20

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

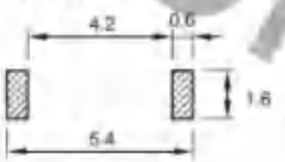
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH5D18 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.86A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Tonset XDSL
- Network Systems
- Computer Peripheral Equipment

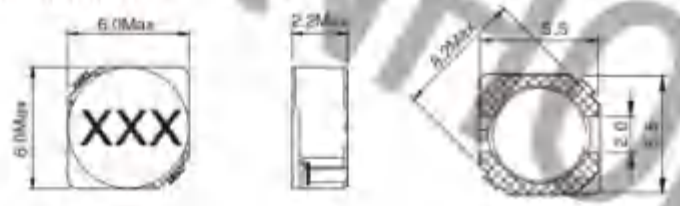
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDRH5D18-1R0□	1.0	10	0.028	3.86
SDRH5D18-1R5□	1.5	10	0.036	3.12
SDRH5D18-2R2□	2.2	10	0.048	2.63
SDRH5D18-2R7□	2.7	10	0.051	2.38
SDRH5D18-3R5□	3.5	10	0.063	1.95
SDRH5D18-4R7□	4.7	10	0.072	1.76
SDRH5D18-5R6□	5.6	10	0.083	1.60
SDRH5D18-6R8□	6.8	10	0.102	1.40
SDRH5D18-8R2□	8.2	10	0.116	1.25
SDRH5D18-100□	10	10	0.124	1.20
SDRH5D18-120□	12	10	0.162	1.10
SDRH5D18-150□	15	10	0.204	0.97
SDRH5D18-180□	18	10	0.226	0.85
SDRH5D18-220□	22	10	0.265	0.80
SDRH5D18-270□	27	10	0.320	0.75
SDRH5D18-330□	33	10	0.380	0.65
SDRH5D18-390□	39	10	0.496	0.57
SDRH5D18-470□	47	10	0.525	0.54
SDRH5D18-560□	56	10	0.795	0.50
SDRH5D18-680□	68	10	0.860	0.43
SDRH5D18-820□	82	10	0.980	0.41
SDRH5D18-101□	100	10	1.250	0.36

□Note:1. K=± 10%,M=± 20%,N=± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

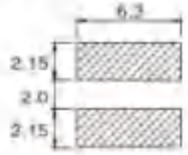
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR:ChenHwa 1880 Milliohmmeter
- Q= HP4342A ~ SRF=HP4191A
- IDC:Max. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH5D28 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.6A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Tqnet, XDSL
- Network Systems
- Computer Peripheral Equipment

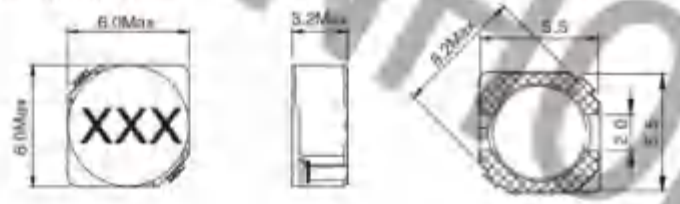
ELECTRICAL CHARACTERISTICS:

Part Number	L uH	Test Freq. KHz	DCR Ω Max	IDC Max A
SDRH5D28-2R5□	2.5	10	0.018	2.60
SDRH5D28-3R0□	3.0	10	0.024	2.40
SDRH5D28-4R2□	4.2	10	0.031	2.20
SDRH5D28-5R3□	5.3	10	0.038	1.90
SDRH5D28-6R2□	6.2	10	0.045	1.80
SDRH5D28-8R2□	8.2	10	0.053	1.60
SDRH5D28-100□	10	10	0.065	1.30
SDRH5D28-120□	12	10	0.076	1.20
SDRH5D28-150□	15	10	0.103	1.10
SDRH5D28-180□	18	10	0.110	1.00
SDRH5D28-220□	22	10	0.112	0.90
SDRH5D28-270□	27	10	0.175	0.85
SDRH5D28-330□	33	10	0.189	0.75
SDRH5D28-390□	39	10	0.212	0.70
SDRH5D28-470□	47	10	0.250	0.62
SDRH5D28-560□	56	10	0.305	0.58
SDRH5D28-680□	68	10	0.355	0.52
SDRH5D28-820□	82	10	0.463	0.46
SDRH5D28-101□	100	10	0.520	0.42

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

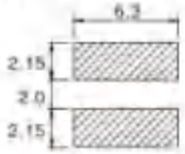
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR:QuadTech 1880 Milliohmmeter
- Q: HP4342A - SRF:HP4191A
- IDC:Max. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH6025 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.7A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

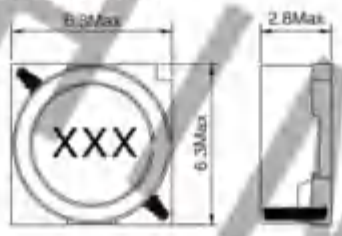
ELECTRICAL CHARACTERISTICS:

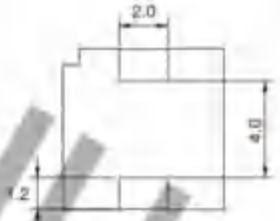
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH6025-1R0□	1.0	100	0.016	2.70
SDRH6025-2R7□	2.7	100	0.022	1.80
SDRH6025-4R7□	4.7	100	0.037	1.50
SDRH6025-6R8□	6.8	100	0.054	1.30
SDRH6025-100□	10	100	0.069	1.00
SDRH6025-150□	15	100	0.102	0.88
SDRH6025-220□	22	100	0.147	0.73
SDRH6025-330□	33	100	0.216	0.59
SDRH6025-470□	47	100	0.288	0.48
SDRH6025-680□	68	100	0.444	0.42
SDRH6025-101□	100	100	0.600	0.33

□:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm





CONSTRUCTION



LAND PATTERNS



- Inductor Tesing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH6028 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.6A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

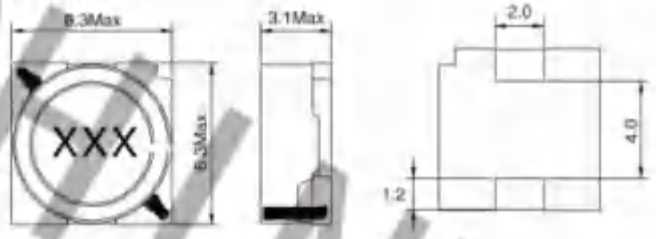
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH6028-4R7□	4.7	1	0.035	1.60
SDRH6028-6R8□	6.8	1	0.043	1.50
SDRH6028-100□	10	1	0.064	1.39
SDRH6028-150□	15	1	0.090	1.00
SDRH6028-220□	22	1	0.125	0.77
SDRH6028-330□	33	1	0.178	0.69
SDRH6028-470□	47	1	0.252	0.59
SDRH6028-680□	68	1	0.348	0.50
SDRH6028-101□	100	1	0.516	0.42

□:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A – SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH6D28 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.0A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Tonset, XDSL
- Network Systems
- Computer Peripheral Equipment

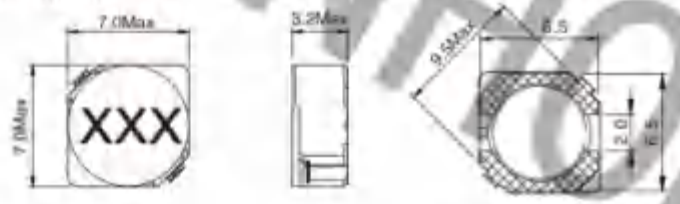
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR mΩ Max	IDC Max A
SDRH6D28-3R0□	3.0	10	24	3.00
SDRH6D28-3R9□	3.9	10	27	2.60
SDRH6D28-5R0□	5.0	10	31	2.40
SDRH6D28-6R0□	6.0	10	35	2.25
SDRH6D28-7R3□	7.3	10	54	2.10
SDRH6D28-8R6□	8.6	10	58	1.85
SDRH6D28-100□	10	10	65	1.70
SDRH6D28-120□	12	10	70	1.55
SDRH6D28-150□	15	10	84	1.40
SDRH6D28-180□	18	10	95	1.32
SDRH6D28-220□	22	10	128	1.20
SDRH6D28-270□	27	10	142	1.05
SDRH6D28-330□	33	10	165	0.97
SDRH6D28-390□	39	10	210	0.86
SDRH6D28-470□	47	10	238	0.80
SDRH6D28-560□	56	10	277	0.73
SDRH6D28-680□	68	10	304	0.65
SDRH6D28-820□	82	10	390	0.60
SDRH6D28-101□	100	10	535	0.54

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

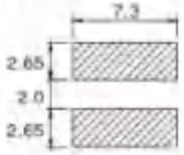
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuanTech 1880 Milliohmmeter
  Q: HP4342A ~ SRF:HP4191A
- IDC:Max. current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH6D38 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.2A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

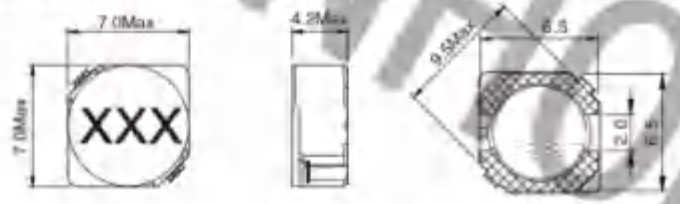
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR mΩ Max	IDC Max A
SDRH6D38-3R3□	3.3	10	20	3.20
SDRH6D38-5R0□	5.0	10	24	2.60
SDRH6D38-6R2□	6.2	10	27	2.30
SDRH6D38-7R4□	7.4	10	31	2.10
SDRH6D38-8R7□	8.7	10	34	2.00
SDRH6D38-100□	10	10	44	1.80
SDRH6D38-120□	12	10	53	1.70
SDRH6D38-150□	15	10	57	1.45
SDRH6D38-180□	18	10	92	1.40
SDRH6D38-220□	22	10	96	1.20
SDRH6D38-270□	27	10	109	1.10
SDRH6D38-330□	33	10	124	1.00
SDRH6D38-390□	39	10	138	0.95
SDRH6D38-470□	47	10	155	0.85
SDRH6D38-560□	56	10	202	0.75
SDRH6D38-680□	68	10	234	0.70
SDRH6D38-820□	82	10	324	0.62
SDRH6D38-101□	100	10	358	0.58

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

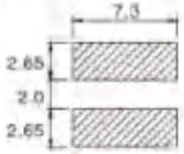
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuanTech 1880 Milliohmmeter
  Q= HP4342A ~ SRF=HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH7028 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.6A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

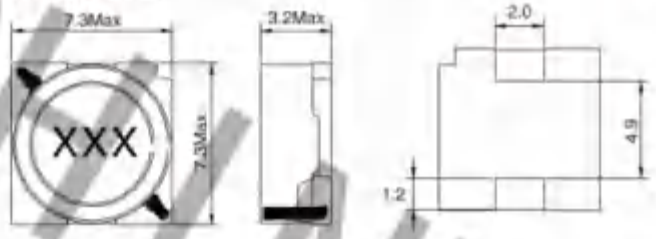
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH7028-3R3□	3.3	1	0.045	1.60
SDRH7028-4R7□	4.7	1	0.054	1.50
SDRH7028-6R8□	6.8	1	0.071	1.30
SDRH7028-100□	10	1	0.100	1.10
SDRH7028-150□	15	1	0.156	0.88
SDRH7028-220□	22	1	0.216	0.75
SDRH7028-330□	33	1	0.288	0.65
SDRH7028-470□	47	1	0.408	0.54

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A – SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH7030 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.8A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

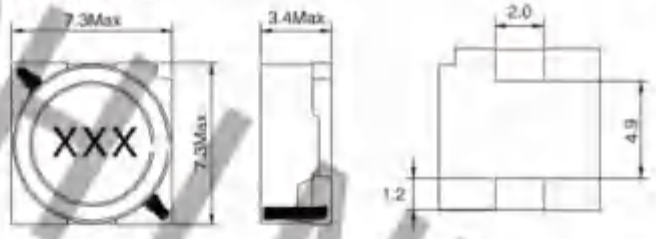
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH7030-3R3□	3.3	1	0.028	1.80
SDRH7030-4R7□	4.7	1	0.044	1.60
SDRH7030-6R8□	6.8	1	0.050	1.50
SDRH7030-100□	10	1	0.064	1.30
SDRH7030-150□	15	1	0.110	1.00
SDRH7030-220□	22	1	0.132	0.86
SDRH7030-330□	33	1	0.192	0.65
SDRH7030-470□	47	1	0.288	0.57
SDRH7030-680□	68	1	0.372	0.49
SDRH7030-101□	100	1	0.540	0.35

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH7032 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 1.9A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

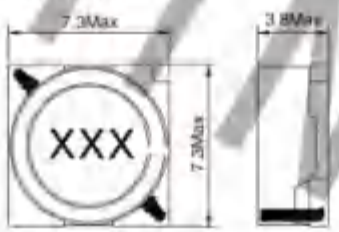
ELECTRICAL CHARACTERISTICS:

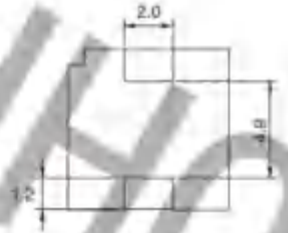
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH7032-3R3□	3.3	1	0.026	1.90
SDRH7032-4R7□	4.7	1	0.044	1.70
SDRH7032-6R8□	6.8	1	0.050	1.60
SDRH7032-100□	10	1	0.064	1.40
SDRH7032-150□	15	1	0.090	1.10
SDRH7032-220□	22	1	0.132	0.93
SDRH7032-330□	33	1	0.192	0.75
SDRH7032-470□	47	1	0.288	0.67
SDRH7032-680□	68	1	0.372	0.59
SDRH7032-101□	100	1	0.542	0.45
SDRH7032-151□	150	1	0.780	0.37
SDRH7032-221□	220	1	1.260	0.29
SDRH7032-331□	330	1	2.010	0.22
SDRH7032-471□	470	1	2.460	0.20
SDRH7032-681□	680	1	3.780	0.16
SDRH7032-102□	1000	1	5.740	0.13

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

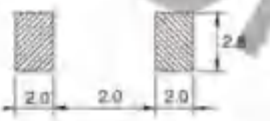




CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A – SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH7045 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.2A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

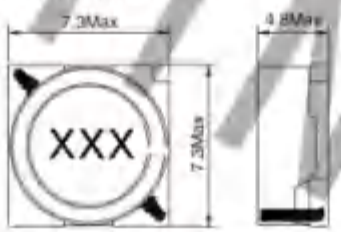
ELECTRICAL CHARACTERISTICS:

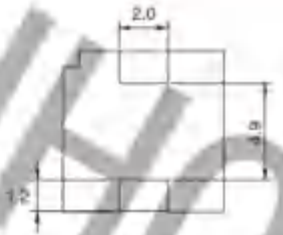
Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH7045-3R3□	3.3	1	0.034	2.20
SDRH7045-4R7□	4.7	1	0.038	2.10
SDRH7045-6R8□	6.8	1	0.047	1.90
SDRH7045-100□	10	1	0.057	1.80
SDRH7045-150□	15	1	0.082	1.46
SDRH7045-220□	22	1	0.099	1.25
SDRH7045-330□	33	1	0.144	1.10
SDRH7045-470□	47	1	0.216	0.90
SDRH7045-680□	68	1	0.324	0.75
SDRH7045-101□	100	1	0.468	0.60
SDRH7045-151□	150	1	0.660	0.50
SDRH7045-221□	220	1	0.996	0.40
SDRH7045-331□	330	1	1.380	0.35
SDRH7045-471□	470	1	2.160	0.31

□:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm

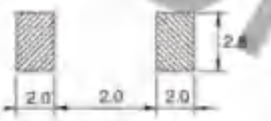




CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH8D28 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 5.4A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

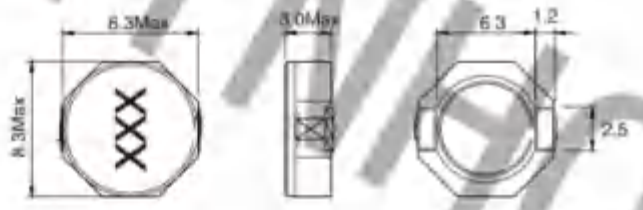
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR mΩ Max	IDC Max A
SDRH8D28-2R5□	2.5	100	18.5	5.4
SDRH8D28-3R3□	3.3	100	24.6	4.8
SDRH8D28-4R7□	4.7	100	36.8	4.0
SDRH8D28-6R8□	6.8	100	48.4	3.2
SDRH8D28-100□	100	100	62.2	2.7
SDRH8D28-150□	150	100	93.5	2.2
SDRH8D28-220□	220	100	156.6	1.8
SDRH8D28-330□	330	100	205.2	1.4
SDRH8D28-470□	470	100	266.1	1.25
SDRH8D28-680□	680	100	368.5	0.96
SDRH8D28-101□	101	100	610.8	0.78

□:T, K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

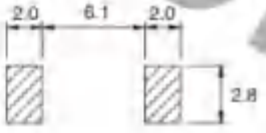
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH8D43 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 6.4A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

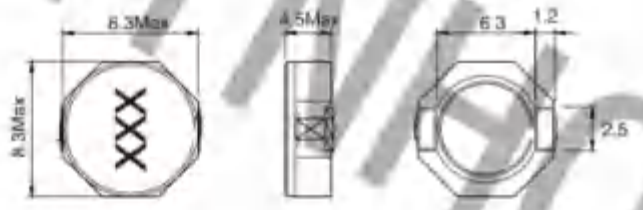
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR mΩ Max	IDC Max A
SDRH8D43-2R0□	2.0	100	14	6.4
SDRH8D43-3R9□	3.9	100	19	5.0
SDRH8D43-4R7□	4.7	100	22	4.6
SDRH8D43-6R8□	6.8	100	32	4.2
SDRH8D43-100□	10	100	40	3.6
SDRH8D43-150□	15	100	58	2.8
SDRH8D43-220□	22	100	96	2.1
SDRH8D43-330□	33	100	144	1.6
SDRH8D43-470□	47	100	195	1.4
SDRH8D43-680□	68	100	240	1.2
SDRH8D43-101□	100	100	360	0.9

□:T, K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

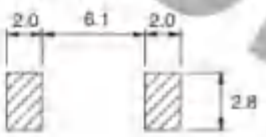
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
  DCR:QuadTech 1880 Milliohmmeter
  Q- HP4342A - SRF-HP4191A
  IDCMax: current is decreased 10% against its initial value
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1514B SERIES



FEATURES:

- Shielded Structure
- Flat-top for pick and place
- Low Resistance Allow high Current
- Excellent Thermal Stability
- Low profile

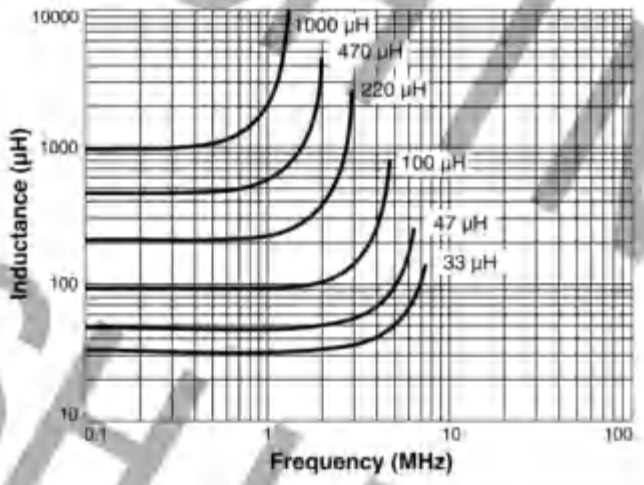
APPLCATIONS:

- Ideal for a variety of DC-DC converter Inductors Applications
- DC/DC converter
- Power supplies for portable communication equipment
- LCD,TV,PDA,PDP
- Notebook computer

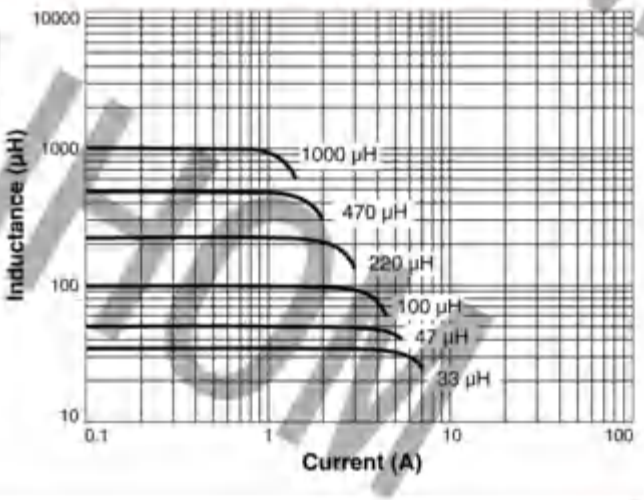
STANDARD SPECIFICATION:

Part Number	Inductance L(μH) @100KHz,0.1V	DCR(mΩ) Max	SRF(MHz) Typ.	Isat(A)			Irms(A)	
				10% drop	20% drop	30% drop	20℃ rise	40℃ rise
SDRH1514-330M	33 ± 20%	26	8.6	5.6	6.4	7.5	3.8	4.9
SDRH1514-470M	47 ± 20%	38	7.3	4.7	5.5	5.9	3.0	3.9
SDRH1514-101K	100 ± 10%	64	5.0	3.2	3.7	4.0	2.4	3.1
SDRH1514-221K	220 ± 10%	152	3.0	2.2	2.5	2.7	1.6	2.2
SDRH1514-471K	470 ± 10%	278	2.3	1.5	1.7	1.9	1.2	1.7
SDRH1514-102K	1000 ± 10%	630	1.5	1.0	1.2	1.3	0.8	1.1

TYPICAL L VS FREQUENCY

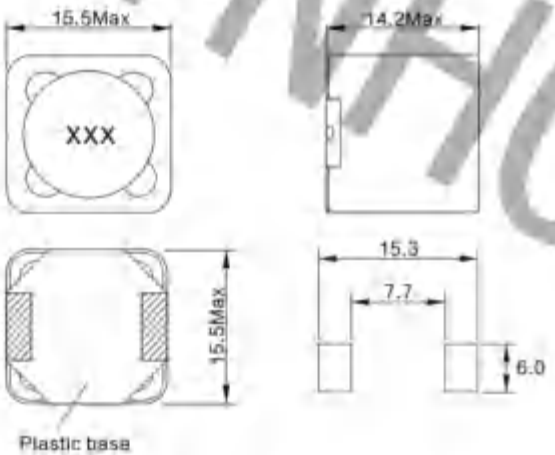


TYPICAL L VS CURRENT



PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Factors:

- Operating voltage 800 V max
- Ambient temperature −40℃ to +125℃ with (40℃ rise) Irms current
- Maximum part temperature +165℃ (ambient + temp rise)
- Storage temperature Component: −40℃ to +165℃
- Tape and reel packaging: −40℃ to +60℃

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS
LPA 1030 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

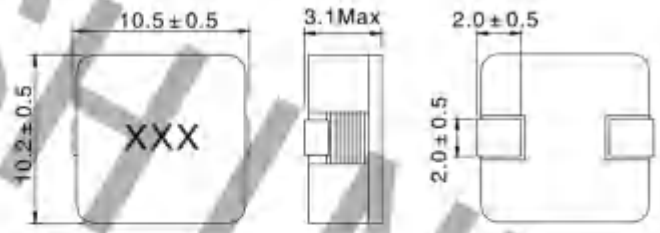
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA1030-R20M	R20	0.2	22.0	50.0	0.9
LPA1030-R33M	R33	0.33	18.0	36.0	2.39
LPA1030-R56M	R56	0.56	18.0	33.0	2.39
LPA1030-R68M	R68	0.68	14.0	21.0	5.27
LPA1030-1R0M	1R0	1.0	14.0	21.0	5.27
LPA1030-1R2M	1R2	1.2	12.0	15.0	7.26
LPA1030-1R5M	1R5	1.5	12.0	18.0	7.26
LPA1030-2R2M	2R2	2.2	9.0	15.0	12.52

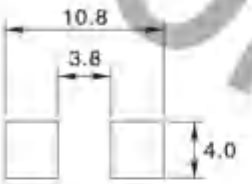
Note:1. K= ±10%,M= ±20%,N= ±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient.
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 1040 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

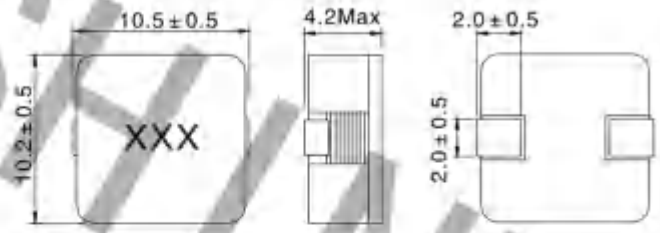
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA1040-R15M	R15	0.15	25.0	60.0	0.64
LPA1040-R30M	R30	0.3	22.0	35.0	1.21
LPA1040-R56M	R56	0.56	20.0	30.0	1.77
LPA1040-1R0M	1R0	1.0	16.0	20.0	3.63
LPA1040-1R5M	1R5	1.5	14.0	17.0	5.83
LPA1040-2R2M	2R2	2.2	11.0	13.0	8.03
LPA1040-2R8M	2R8	2.8	9.5	11.0	11.66
LPA1040-4R3M	4R3	4.3	8.0	8.0	15.51

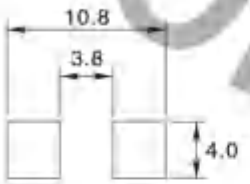
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient.
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 1050 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

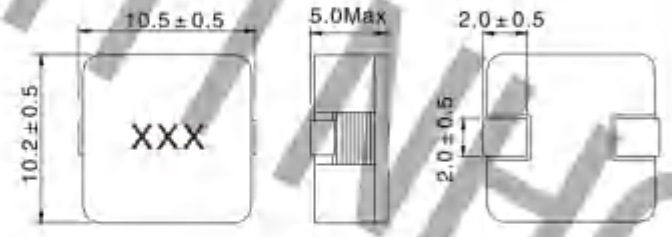
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max (mΩ)
LPA1050-R16M	R16	0.16	25.0	58.0	0.56
LPA1050-R40M	R40	0.4	24.0	37.0	0.74
LPA1050-R72M	R72	0.72	22.0	35.0	1.43
LPA1050-1R2M	1R2	1.2	20.0	25.0	1.98
LPA1050-1R8M	1R8	1.8	16.0	18.0	3.85
LPA1050-2R4M	2R4	2.4	14.0	17.0	5.23
LPA1050-3R3M	3R8	3.3	12.0	15.0	6.49
LPA1050-4R2M	4R2	4.2	11.0	14.0	7.81
LPA1050-5R5M	5R5	5.5	10.0	12.0	11.33
LPA1050-6R5M	6R5	6.5	8.4	10.0	13.75
LPA1050-7R8M	7R8	7.8	8.0	9.5	14.96
LPA1050-100M	100	10	7.2	8.5	17.93
LPA1050-160M	160	16	5.0	6.5	37.95

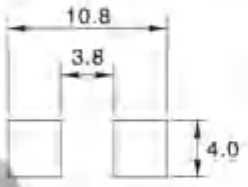
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

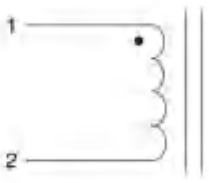
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : LHP4284A, WK3260B, WK3261A, WK3265B
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient I temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 1230 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

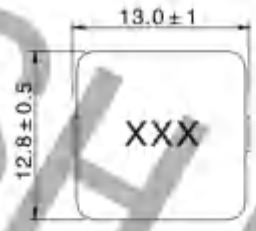
ELECTRICAL CHARACTERISTICS:

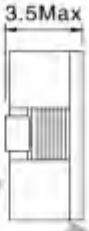
Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA1230-R25N	R25	0.25	24.0	60.0	0.83
LPA1230-R68M	R68	0.68	22.0	40.0	1.74
LPA1230-1R2M	1R2	1.2	17.0	28.0	3.14
LPA1230-1R8M	1R8	1.8	14.0	22.0	6.16
LPA1230-2R2M	2R2	2.2	14.0	18.0	6.27
LPA1230-3R3M	3R3	3.3	12.0	14.0	8.91

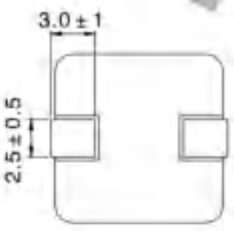
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

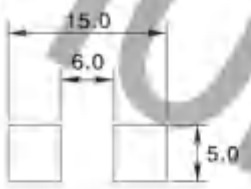
Dimensions(mm)







Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument: L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient.
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125 C under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 500PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 1260 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

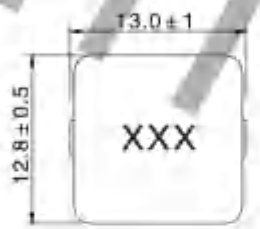
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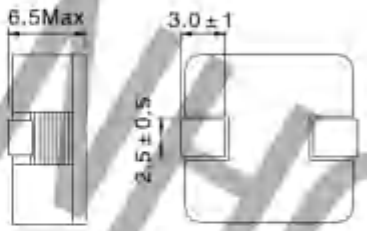
Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA1260-R22M	R22	0.2	32.0	65.0	0.39
LPA1260-R47M	R47	0.47	30.0	50.0	0.74
LPA1260-R82M	R82	0.82	27.0	35.0	0.99
LPA1260-1R3M	1R3	1.3	25.0	25.0	1.98
LPA1260-2R0M	2R0	2.0	23.0	22.0	2.86
LPA1260-2R8M	2R8	2.8	20.0	17.5	3.63
LPA1260-3R7M	3R7	3.7	17.0	16.0	5.39
LPA1260-4R7M	4R7	4.7	13.0	15.0	7.70
LPA1260-6R0M	6R0	6.0	12.0	14.0	9.24
LPA1260-7R3M	7R3	7.3	13.0	12.0	6.49
LPA1260-9R2M	9R2	9.2	12.0	10.5	8.58
LPA1260-110M	110	11.3	11.0	9.5	10.0
LPA1260-130M	130	13.0	10.0	9.0	12.32
LPA1260-150M	150	15.4	9.0	8.0	16.28
LPA1260-220M	120	22.0	6.0	6.5	27.17

Note:1. K= ± 10%,M=± 20%,N= ± 30%

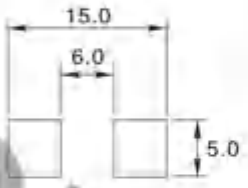
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)





Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 500PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 1890 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

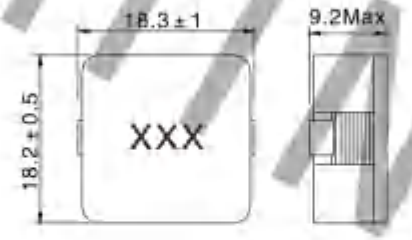
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA1890-R82M	R82	0.82	41.5	65.0	0.58
LPA1890-1R3M	1R3	1.3	34.5	62.0	1.02
LPA1890-1R9M	1R9	1.9	32.5	52.0	1.3
LPA1890-2R6M	2R6	2.6	31.5	50.0	1.71
LPA1890-3R5M	3R5	3.5	22.5	37.0	3.35
LPA1890-4R5M	4R5	4.5	20.5	37.0	3.67
LPA1890-5R6M	5R6	5.6	19.0	33.0	4.0
LPA1890-6R8M	6R8	6.8	18.5	27.0	4.43
LPA1890-100M	100	10	15.0	21.5	7.45
LPA1890-100MT	100	10	16.5	18.5	7.67
LPA1890-150M	150	15	14.0	14.0	10.05
LPA1890-220M	220	22	11.0	11.0	15.77
LPA1890-330M	330	33	8.5	9.0	24.41
LPA1890-470M	470	47	6.8	7.0	36.72

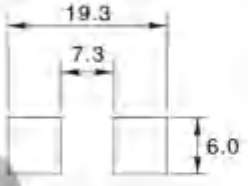
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

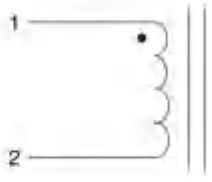
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement. PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 250PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS
LPA 7030 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

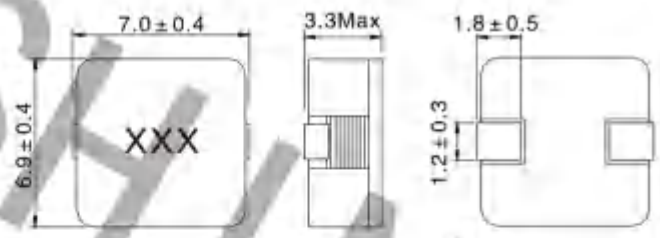
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA7030-R13M	R13	0.13	22	48	1.0
LPA7030-R24M	R24	0.24	18	40	1.98
LPA7030-R52M	R52	0.52	14	20	4.07
LPA7030-R95M	R95	0.95	11	13	6.82
LPA7030-1R2M	1R2	1.15	8.5	13	9.46
LPA7030-1R5M	1R5	1.5	7.5	12	13.97
LPA7030-2R0M	2R0	2.0	6.5	9	15.62

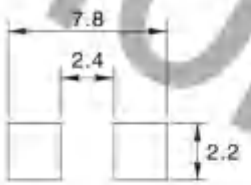
Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Land patterns



Winding



Note:
- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate Δ T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

SHINHOM

Note:All specifications subject to change without notice.



SMD HIGH CURRENT POWER INDUCTORS

LPA 7040 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

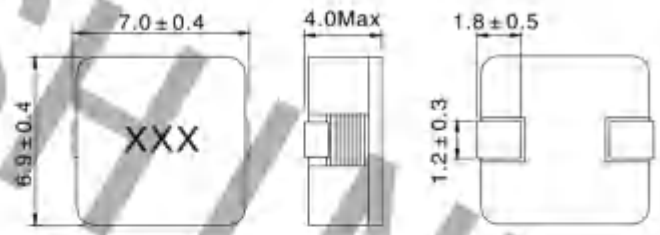
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA7040-R22M	R22	0.22	21.0	32.0	1.21
LPA7040-R40M	R40	0.4	19.0	25.0	2.04
LPA7040-R68M	R68	0.68	17.0	20.0	3.41
LPA7040-1R0M	1R0	1.0	15.0	19.0	5.06
LPA7040-1R5M	1R5	1.5	11.0	14.0	7.26
LPA7040-2R2M	2R2	2.2	9.0	13.0	12.54
LPA7040-3R3M	3R3	3.3	8.5	11.0	18.92
LPA7040-4R7M	4R7	4.7	6.0	7.0	21.45

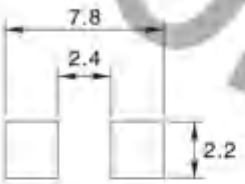
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25℃ ambient.
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient t temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD HIGH CURRENT POWER INDUCTORS

LPA 7050 SERIES

FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

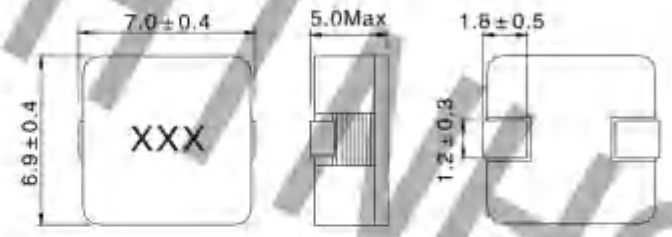
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPA7050-R24M	R24	0.24	20.0	28.0	1.1
LPA7050-R47M	R47	0.47	18.0	20.0	1.49
LPA7050-R76M	R76	0.76	15.5	15.0	2.48
LPA7050-1R1M	1R1	1.1	15.0	13.0	3.47
LPA7050-1R5M	1R5	1.5	13.0	11.0	4.73
LPA7050-2R0M	2R0	2.0	11.5	9.0	6.44
LPA7050-3R3M	3R3	3.3	9.0	8.0	9.90
LPA7050-4R9M	4R9	4.9	6.5	6.5	15.95
LPA7050-6R5M	6R5	6.5	6.0	6.0	23.65
LPA7050-7R6M	7R6	7.6	4.2	4.8	33.22
LPA7050-8R5M	8R5	8.5	4.0	4.5	35.75
LPA7050-100M	100	10	3.5	4.0	36.30

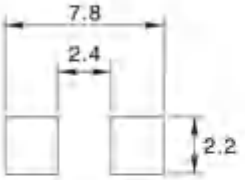
Note: K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

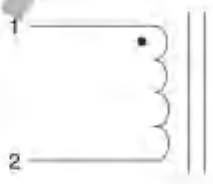
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : LHP4284A, WK3260B, WK3261A, WK3265B
- All test data is referenced to 25℃ ambient
- Idc: DC current (A) that will cause an approximate △T of 50℃
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient i temp rise) should not exceed 125℃ under worse case operating Conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature, part temperature should be verified in The end application.
- Packing: 1000PCS/REEL

Note:All specifications subject to change without notice.

SHINHOM



SMD MOLDED POWER INDUCTORS

LPM 0420,0630 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH. in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.) Bulk packaging Available for Smaller Quantities.
- Tolerance M=20% ,N=30% is Standard, Tighter Tolerances Available.

COMMON APPLCATIONS:

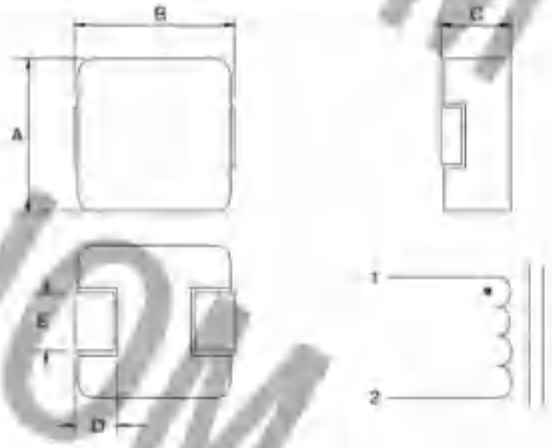
- Excellent for power line DC-DC conversion.
- Applications usedin power switching.
- Personal computers and other handheldelectronic equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).	Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM0420-R047M	0.047	15	15	2.5	3	LPM0630-R82M	0.82	13	24	4.8	7.8
LPM0420-R10M	0.1	12	12	4.5	5.5	LPM0630-1R0M	1.0	12	22	7.4	9.4
LPM0420-R22M	0.22	9.5	9.5	8	9.5	LPM0630-1R5M	1.5	10	18	8.6	14
LPM0420-R47M	0.47	6	6	17.5	19	LPM0630-2R2M	2.2	8	15	12.8	18
LPM0420-1R0M	1.0	4.2	4.5	41.5	43	LPM0630-3R3M	3.3	6	11.5	17.3	25
LPM0420-1R2M	1.2	3.75	3.75	54.5	56.5	LPM0630-4R7M	4.7	5.5	10	24.2	32
LPM0420-1R5M	1.5	3.25	3.25	67	68	LPM0630-5R6M	5.6	5.0	8.5	30.6	40
LPM0420-2R2M	2.2	2.75	3	77.5	79	LPM0630-6R8M	6.8	4.5	8.0	37	44
LPM0630-R20M	0.2	24	41	2	3.0	LPM0630-8R2M	8.2	4.0	6.5	50	60
LPM0630-R33M	0.33	20	30	2.1	3.4	LPM0630-100M	10	3.5	5.5	58	72
LPM0630-R47M	0.47	17.5	26	4.0	5.3	LPM0630-150M	15	3.0	5	84	105
LPM0630-R68M	0.68	16.0	25	4.8	6.4	LPM0630-220M	22	2.5	4.5	112	165

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40℃ ~ +105℃.



Dimensions(mm)

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)		
LPM 0420	4.06 ± 0.254	4.45 ± 0.254	2.0 max.	0.76 ± 0.3	2.3 ± 0.2		
LPM 0630	6.6 ± 0.2	7.2 ± 0.2	3.0 max.	1.6 ± 0.5	3.0 ± 0.2		

Note:All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1040,1045 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.) Bulk packaging Available for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard.Tighter Tolerances Available

COMMON APPLCATIONS:

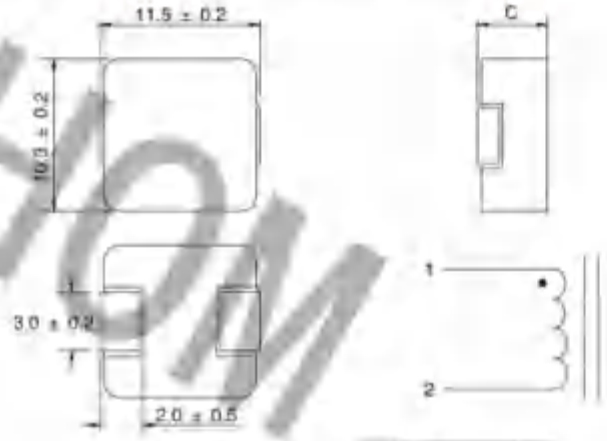
- Excellent for power line DC-DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1040-R20M	0.2	36	66	1.8	3.5	LPM1040-5R6M	5.6	8.5	15	18.9	25
LPM1040-R33M	0.33	31	60	2.0	3.8	LPM1040-6R8M	6.8	8.0	14	23.5	30
LPM1040-R47M	0.47	28.5	54	2.1	4.0	LPM1040-8R2M	8.2	7.0	12.5	26.3	35
LPM1040-R56M	0.56	27.5	49	2.2	4.5	LPM1045-100M	10	6.8	11.5	30.2	38
LPM1040-R68M	0.68	24	42	2.8	5.0	LPM1045-150M	15	5.0	9	48	55
LPM1040-R82M	0.82	22	39	3.0	7.0	LPM1045-220M	22	4.5	8	50	58
LPM1040-1R0M	1.0	17.5	32	3.5	7.5	LPM1045-330M	33	3.5	6.5	75	90
LPM1040-1R2M	1.2	19.5	29	4.3	7.9	LPM1045-470M	47	3.0	5	110	130
LPM1040-1R5M	1.5	15	27.5	5.2	8.0						
LPM1040-2R2M	2.2	12	21.5	6.5	10						
LPM1040-3R3M	3.3	10	18.6	10.1	14						
LPM1040-4R7M	4.7	9.5	16.5	15.5	23.6						

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc
- Testing Instrument : LCR HP4284A, CH11025 CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40℃ ~ +105℃



Dimensions(mm)

Series	C
LPM1040	4.5Max
LPM1045	5.5Max

Note:All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1240,1250,1260 1265,1270 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.) Bulk packaging Available for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard.Tighter Tolerances Available

COMMON APPLCATIONS:

- Excellent for power line DC-DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

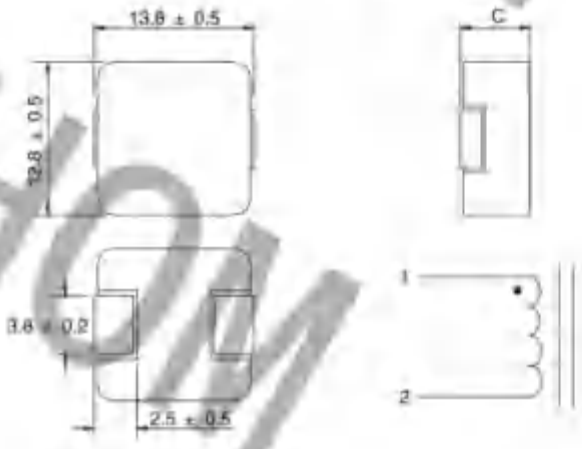
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1240-R22M	0.22	45	85.5	1.5	3.0
LPM1240-R33M	0.33	42	80.5	1.8	3.5
LPM1240-R47M	0.47	38	65	2.0	4.0
LPM1240-R56M	0.56	36	55	2.3	5.0
LPM1240-R68M	0.68	34	54	2.7	6.5
LPM1250-R82M	0.82	31	53	3.0	6.5
LPM1250-1R0M	1.0	29	50	3.5	7.0
LPM1250-1R2M	1.2	26	49	3.9	7.5
LPM1250-1R5M	1.5	23	48	4.3	8.0
LPM1250-2R2M	2.2	20	32	5.0	9.0
LPM1250-3R3M	3.3	15	27.5	6.5	11
LPM1250-4R7M	4.7	12	22.5	8.5	13

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1260-5R6M	5.6	11.5	20	10.5	15
LPM1260-6R8M	6.8	11.0	18.5	13	17
LPM1260-8R2M	8.2	10	17	18	23
LPM1260-100M	10	9.5	16	25	30
LPM1265-150M	15	9.0	14.5	36	45
LPM1265-220M	22	8.0	13	39	50
LPM1265-330M	33	7.0	11	42	55
LPM1265-470M	47	6.0	10	61	85
LPM1265-680M	68	4.5	8.5	92	110
LPM1275-820M	82	3.5	6.5	104	125
LPM1270-101M	100	3.0	5.5	111.5	140

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40℃ ~ +105℃



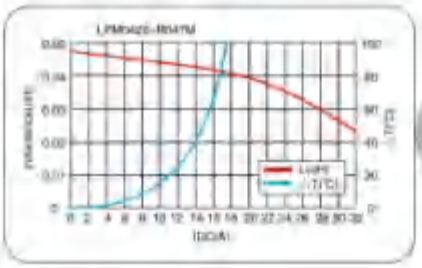
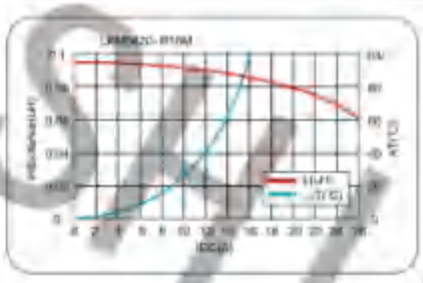
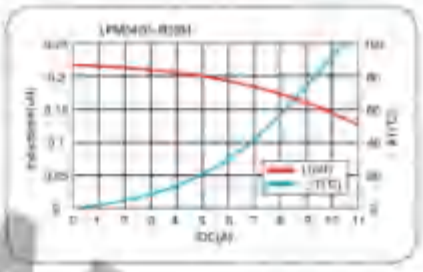
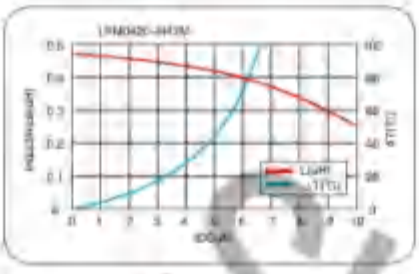
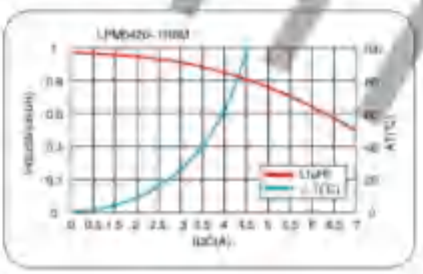
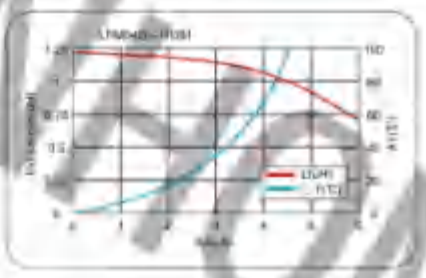
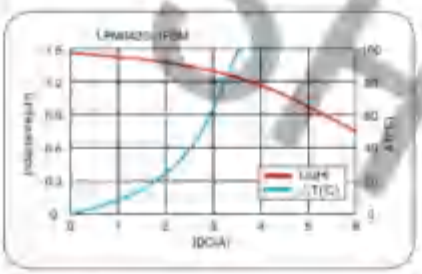
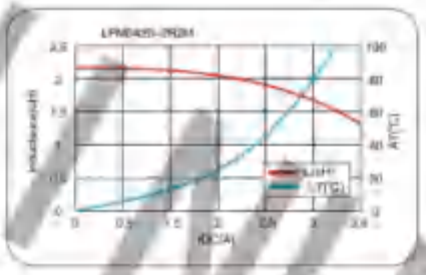
Dimensions(mm)

Series	LPM1240	LPM1250	LPM1260	LPM1265	LPM1270
C	5.0Max.	6.0Max.	7.0Max.	7.5Max.	8.0Max.

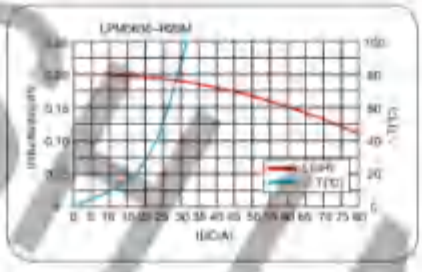
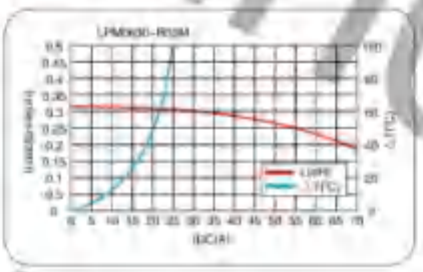
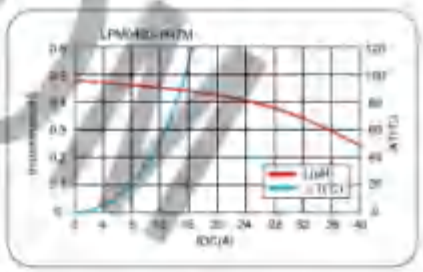
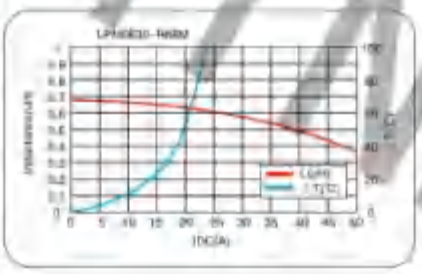
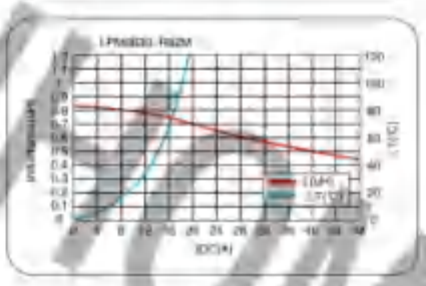
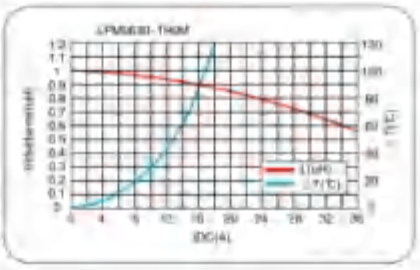
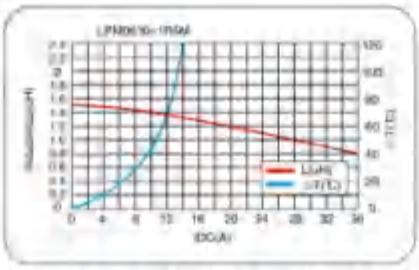
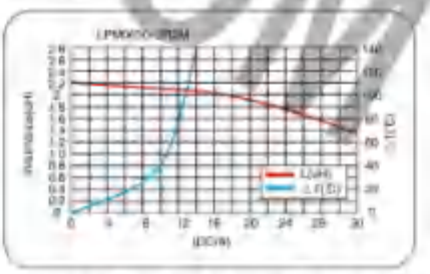
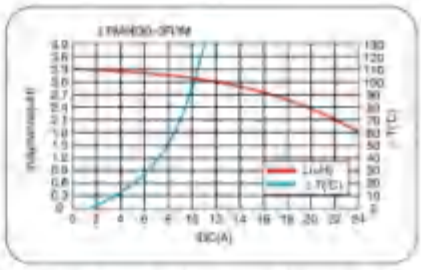
Note:All specifications subject to change without notice.

PERFORMANCE CURVE

LPM0420 Series

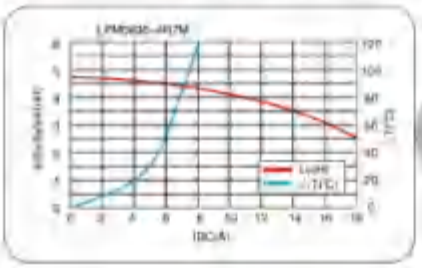
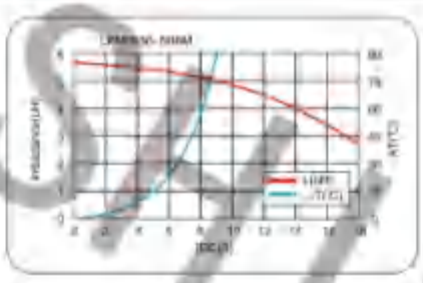
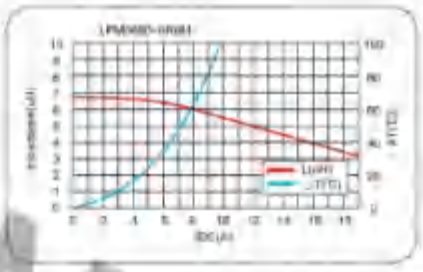
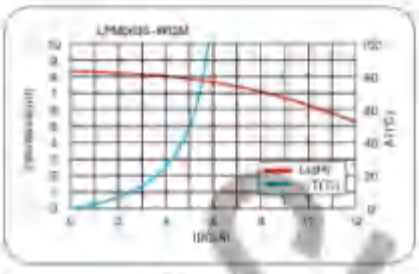
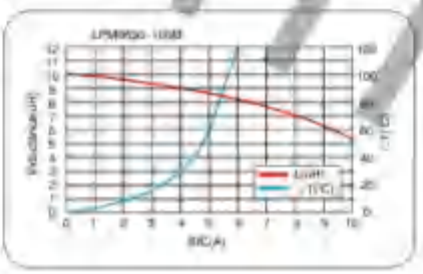
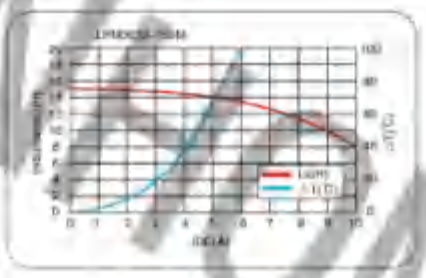
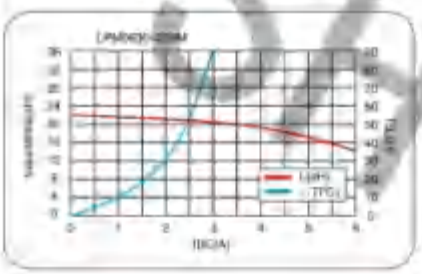
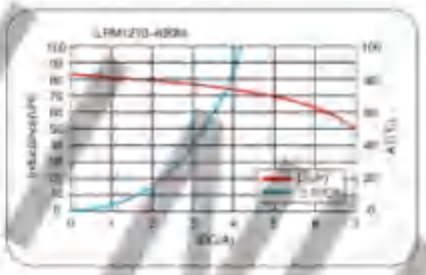
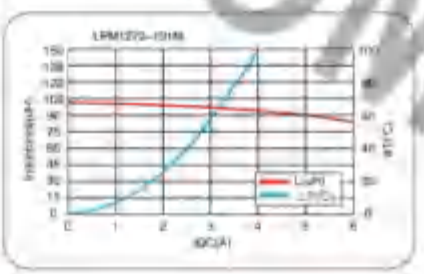









LPM0630 Series

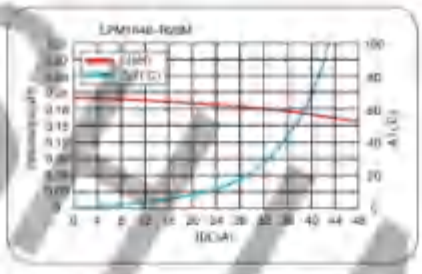
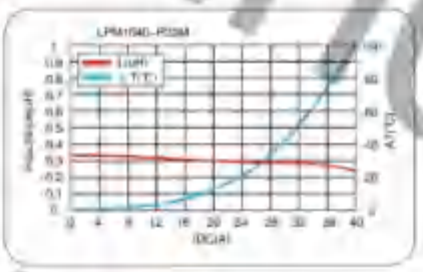
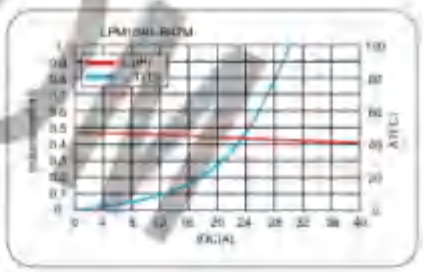
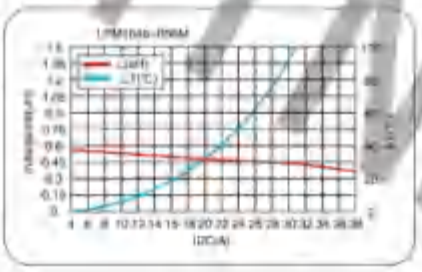
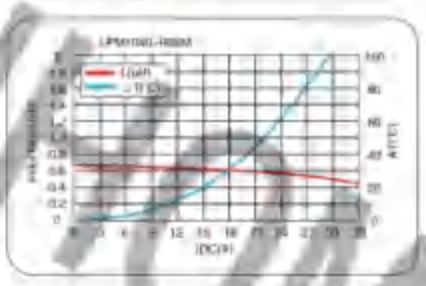
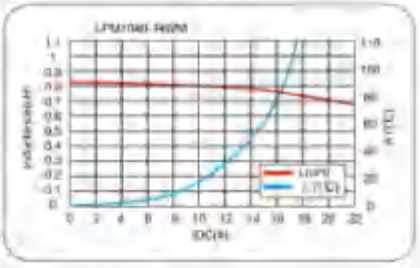
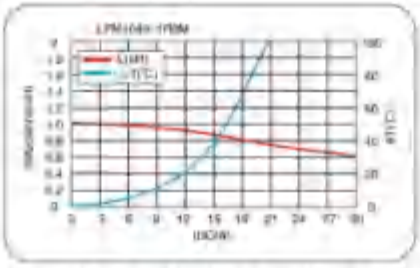
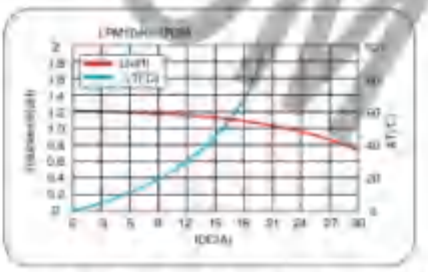
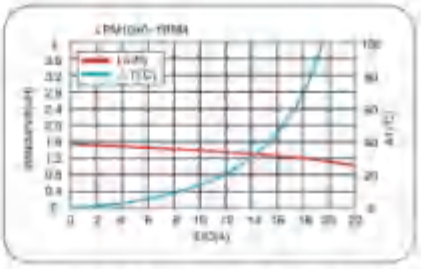










PERFORMANCE CURVE

LPM0630,1270 Series

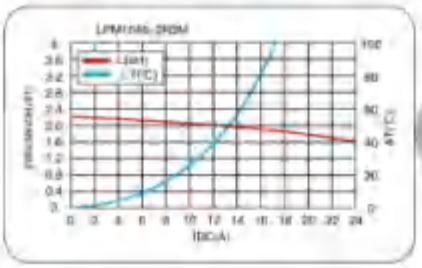










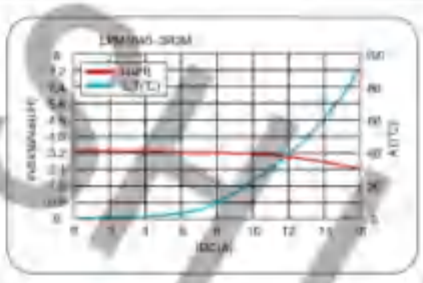
LPM1040 Series

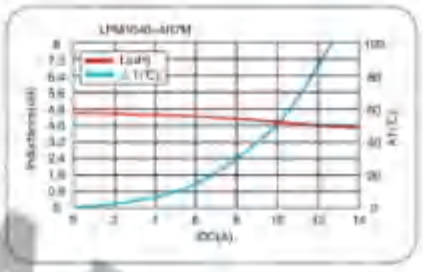










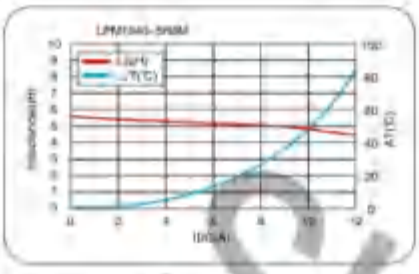
PERFORMANCE CURVE

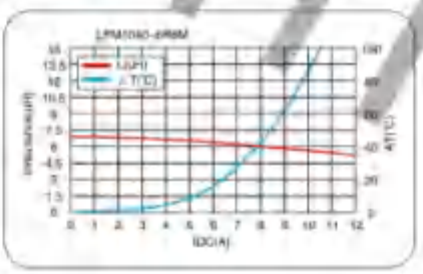
LPM1040,1045 Series

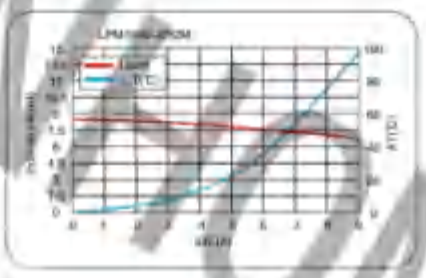


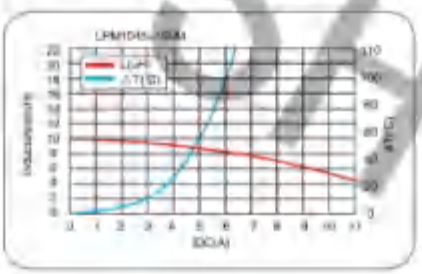


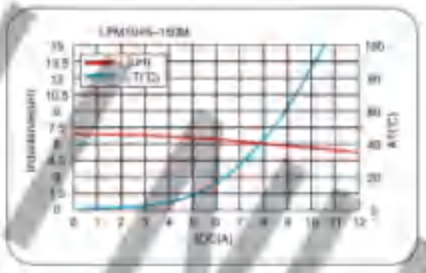


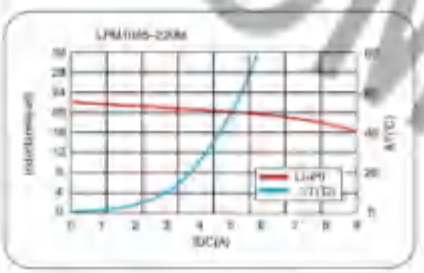


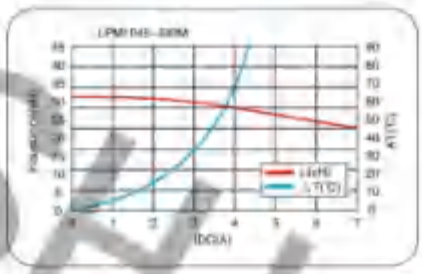


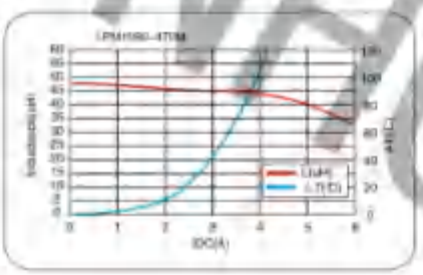




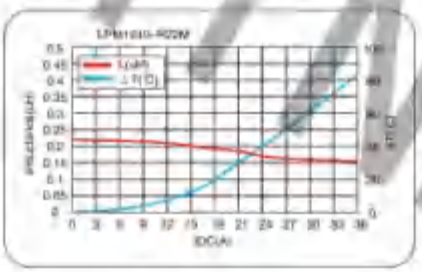


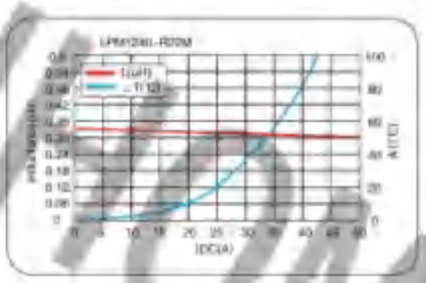


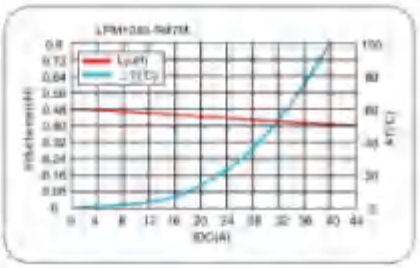


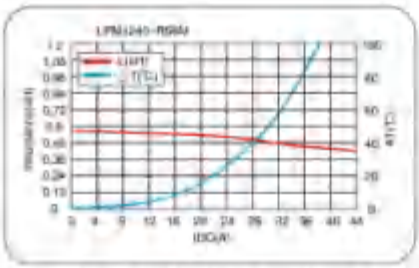


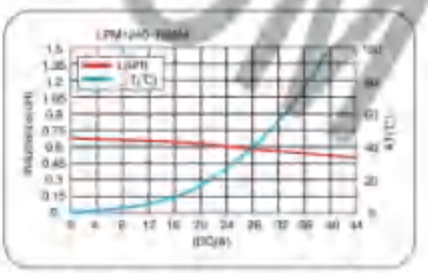
LPM1240 Series







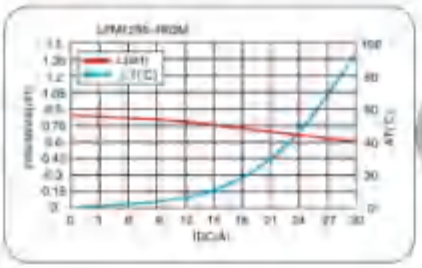
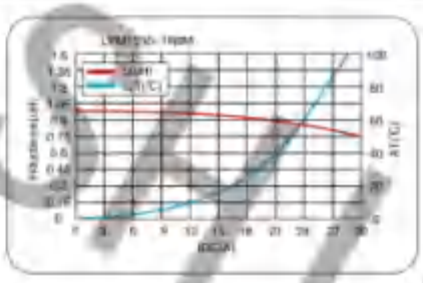
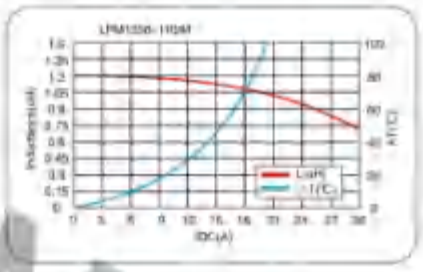
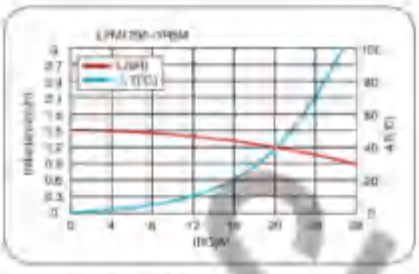
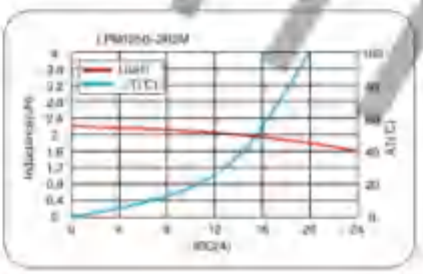
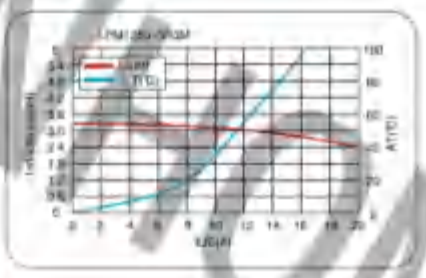




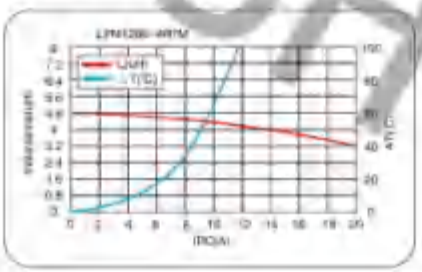
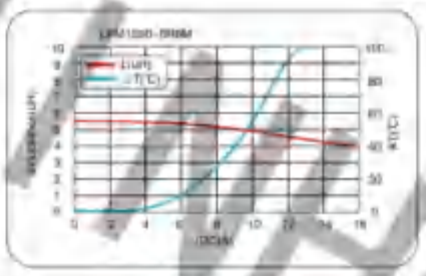
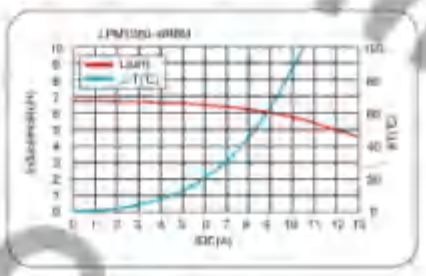
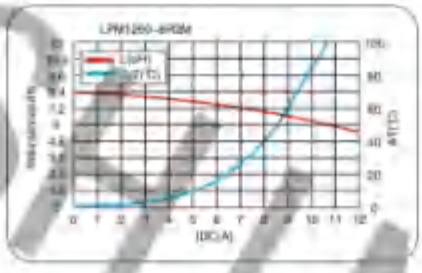
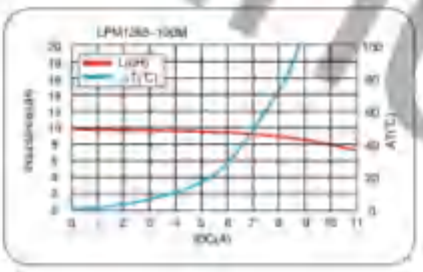
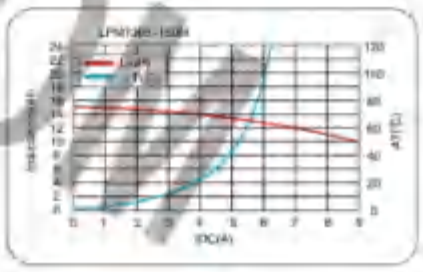
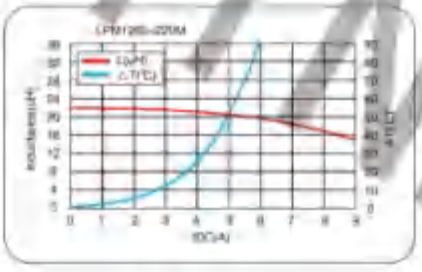
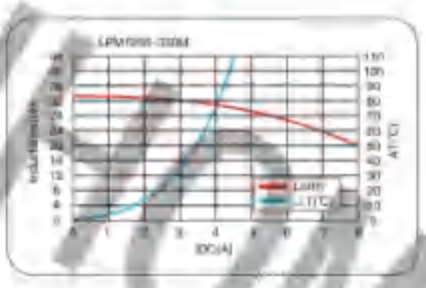
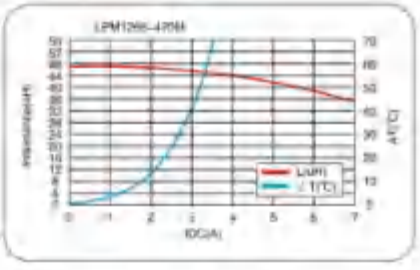
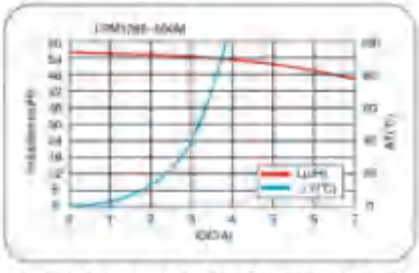
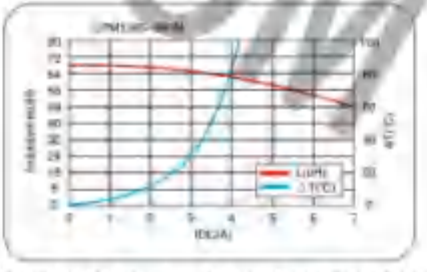
SAMPLE

PERFORMANCE CURVE

LPM1250 Series

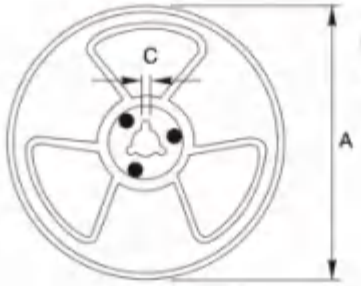







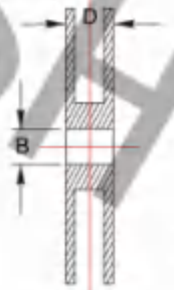
LPM1260,1265 Series

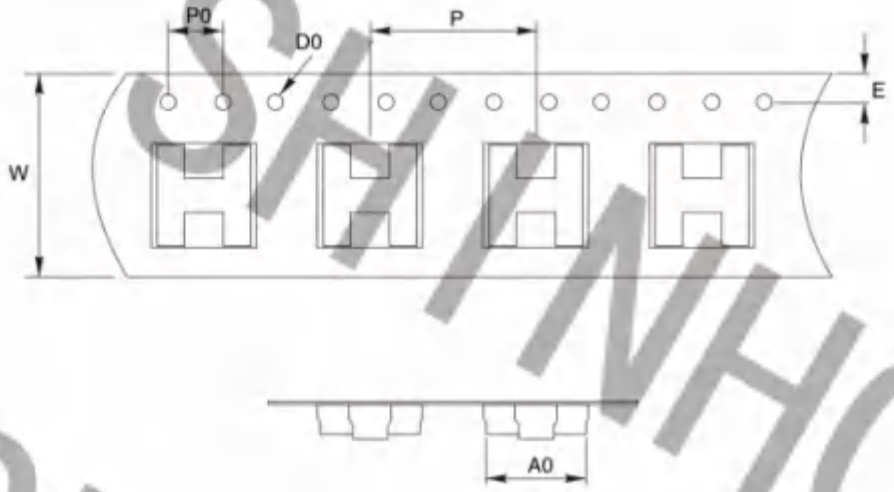
PRODUCT PACKAGING

LPM0630 Series

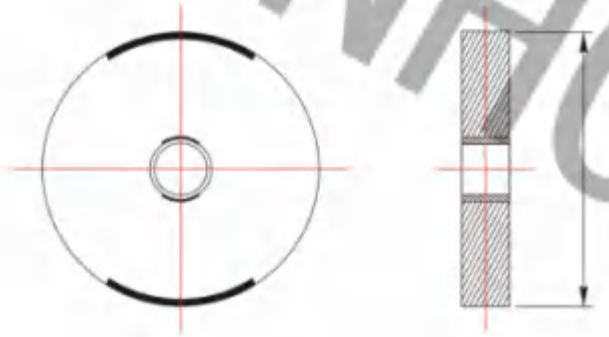




	13"
A	ϕ330 ± 2.0
B	ϕ76.5 ± 2.0
C	ϕ2.3
D	16(tape 13.3)



Size	W	A0	B0	D0	E	K0	P0	P	T
0630	16.0 ± 0.3	6.8 ± 0.1	6.8 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	2.8 ± 0.1	4.0 ± 0.1	12.0 ± 0.1	0.4 ± 0.05

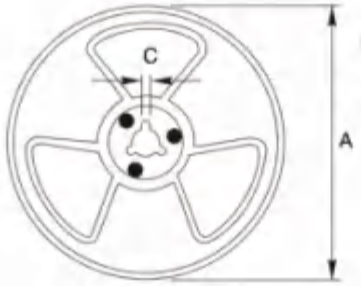


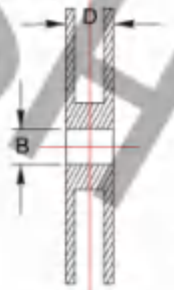
Unit	Size	PCS
1 reel	330*29mm	2000
2 reels/box	340*65*340mm	6000
4 boxes/carton	355*285*365mm	24000

SHINHOM SHINHOM SHINHOM

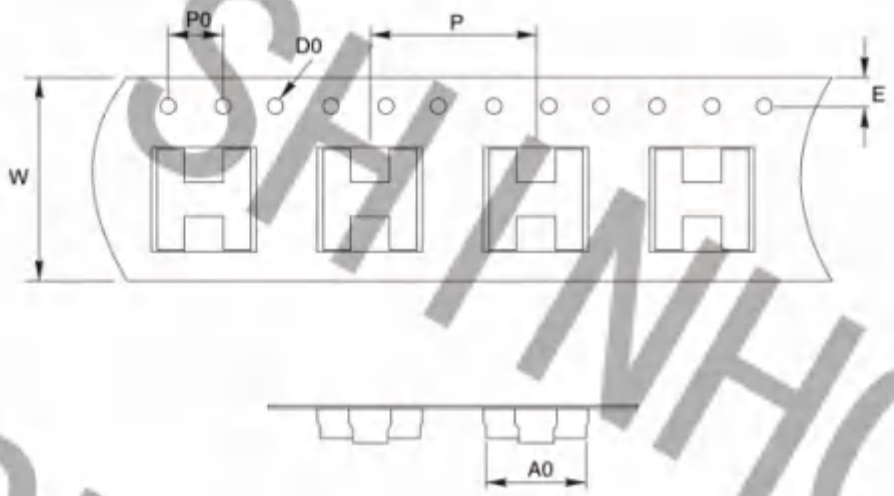
PRODUCT PACKAGING

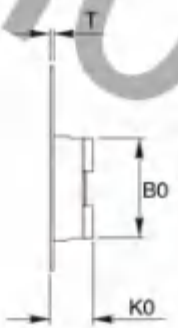
LPM1040 Series





	13"
A	ϕ330 ± 2.0
B	ϕ76.5 ± 2.0
C	ϕ2.3
D	24(tape 21.3 ± 0.15)





Size	W	A0	B0	D0	E	K0	P0	P	T
1040	24.0 ± 0.3	10.6 ± 0.1	11.6 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	4.2 ± 0.1	4.0 ± 0.1	16.0 ± 0.1	0.4 ± 0.05



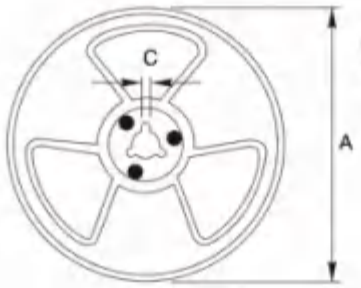


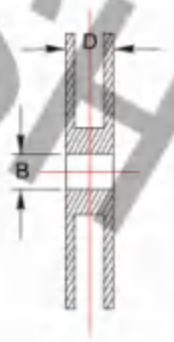
Unit	Size	PCS
1 reel	330*29mm	1000
2 reels/box	340*65*340mm	2000
4 boxes/carton	355*285*365mm	8000

SHINHOM SHINHOM SHINHOM

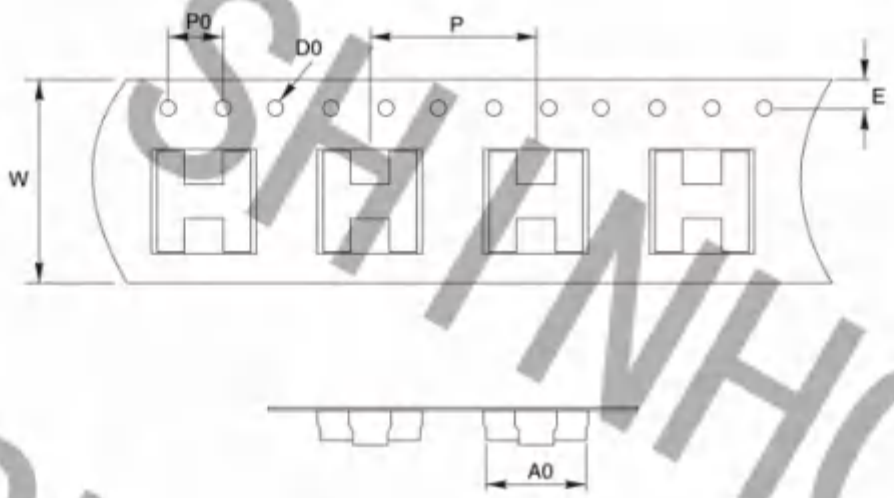
PRODUCT PACKAGING

LPM1260 Series

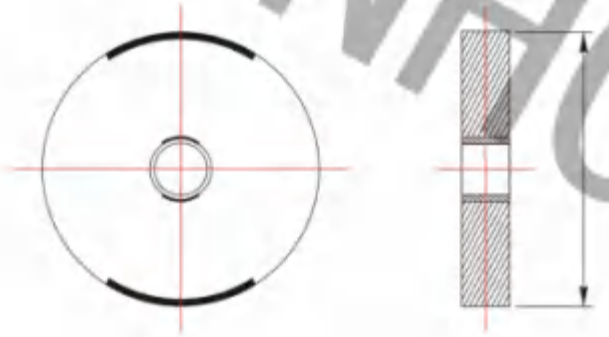




	13"
A	ϕ330 ± 2.0
B	ϕ76.5 ± 2.0
C	ϕ2.3
D	24(tape 21.3 ± 0.15)



Size	W	A0	B0	D0	E	K0	P0	P	T
1260	24.0 ± 0.3	13.1 ± 0.1	14.1 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	6.0 ± 0.1	20.0 ± 0.1	16.0 ± 0.1	0.4 ± 0.05



Unit	Size	PCS
1 reel	330*29mm	1000
2 reels/box	340*65*340mm	2000
4 boxes/carton	355*285*365mm	8000

SHINHOM SHINHOM SHINHOM



SMD MOLDED POWER INDUCTORS

LPM 1340 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLCATIONS:

- Excellent for power line DC–DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

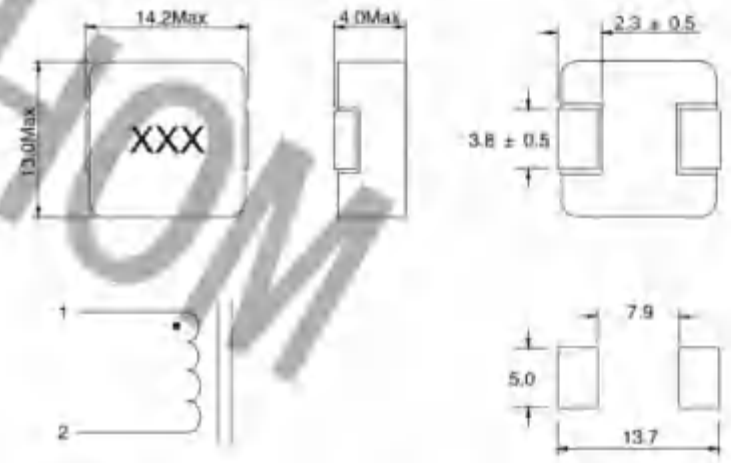
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(uH)± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1340–R10M	R10	0.1	33.0	84.0	0.96
LPM1340–R15M	R15	0.15	31.0	75.0	1.2
LPM1340–R22M	R22	0.22	28.5	65.0	1.3
LPM1340–R33M	R33	0.33	26.5	62.0	1.5
LPM1340–R47M	R47	0.47	23.0	55.0	2.0
LPM1340–R60M	R60	0.60	22.0	40.0	3.0
LPM1340–R68M	R68	0.68	22.0	40.0	2.5
LPM1340–R82M	R82	0.82	20.0	38.0	3.0
LPM1340–1R0M	1R0	1.0	19.0	38.0	3.5
LPM1340–1R5M	1R5	1.5	16.0	30.0	5.5
LPM1340–1R8M	1R8	1.8	16.0	26.0	8.3
LPM1340–2R2M	2R2	2.2	15.0	22.0	9.5
LPM1340–3R3M	3R3	3.3	14.0	20.0	12.0
LPM1340–4R7M	4R7	4.7	8.0	15.0	15.0
LPM1340–5R6M	5R6	5.6	8.0	14.0	19.0
LPM1340–6R8M	6R8	6.8	7.0	12.0	24.0
LPM1340–8R2M	8R2	8.2	7.0	12.0	28.0
LPM1340–100M	100	10	6.0	10.0	35.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25℃.
- Testing Instrument : LCHP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately. △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -55℃ ~ +125℃.

Dimensions(mm)



Note:All specifications subject to change without notice.

SHINHOM



SMD MOLDED POWER INDUCTORS

LPM 1350 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLCATIONS:

- Excellent for power line DC–DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

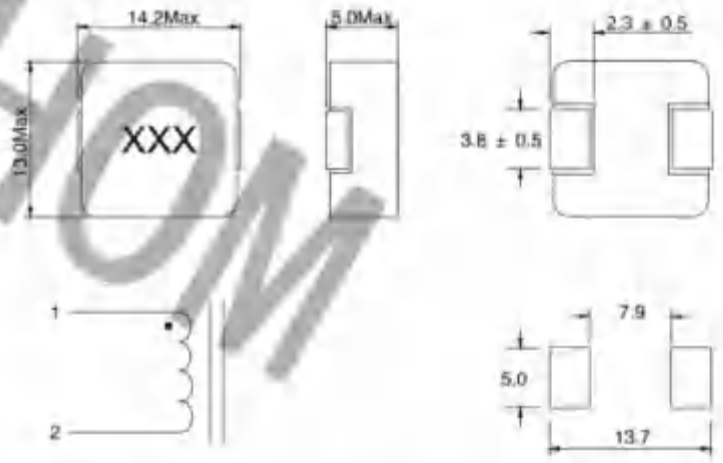
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH)± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1350–R10M	R10	0.1	45.0	98	0.6
LPM1350–R22M	R22	0.22	41.0	90	0.6
LPM1350–R33M	R33	0.33	32.0	60	1.1
LPM1350–R47M	R47	0.47	25.0	48	1.3
LPM1350–R56M	R56	0.56	23.0	46	1.5
LPM1350–R68M	R68	0.68	20.0	40	1.7
LPM1350–R82M	R82	0.82	19.0	39	2.5
LPM1350–1R0M	1R0	1.0	18.0	35	3.5
LPM1350–1R5M	1R5	1.5	18.0	33	4.1
LPM1350–1R8M	1R8	1.8	17.0	30	4.9
LPM1350–2R2M	2R2	2.2	16.0	25	5.5
LPM1350–3R3M	3R3	3.3	15.0	23	13.0
LPM1350–4R7M	4R7	4.7	12.0	21	15.0
LPM1350–5R6M	5R6	5.6	12.0	20	17.0
LPM1350–6R8M	6R8	6.8	11.0	18	19.0
LPM1350–8R2M	8R2	8.2	10.0	17	22.5
LPM1350–100M	100	10	6.0	13	25.5
LPM1350–470M	470	47	2.5	3.5	90.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25℃.
- Testing Instrument : LCHP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -55℃ ~ +125℃.

Dimensions(mm)



Note:All specifications subject to change without notice.

SHINHOM



SMD MOLDED POWER INDUCTORS

LPM 1360 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLCATIONS:

- Excellent for power line DC-DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

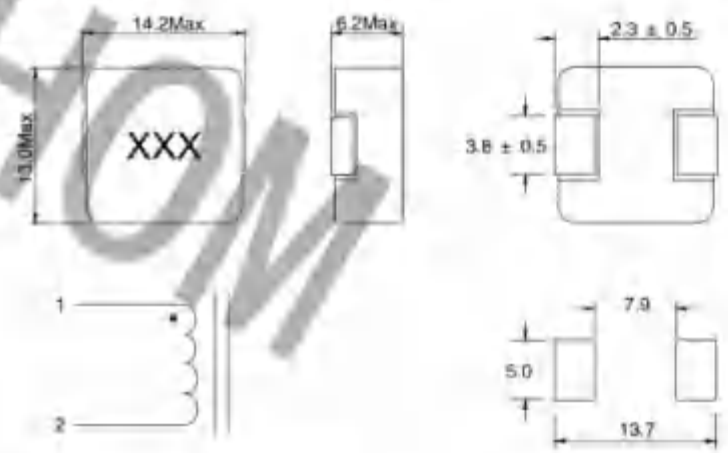
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ)
LPM1360-R10M	R10	0.1	60	108	2.0
LPM1360-R15M	R15	0.15	55	105	2.1
LPM1360-R22M	R22	0.22	53	100	2.2
LPM1360-R30M	R30	0.30	48	60	2.2
LPM1360-R33M	R33	0.33	46	55	2.3
LPM1360-R40M	R40	0.40	44	52	2.4
LPM1360-R47M	R47	0.47	41	50	2.5
LPM1360-R56M	R56	0.56	37	48	2.6
LPM1360-R68M	R68	0.68	35	45	2.8
LPM1360-R82M	R82	0.82	25	42	3.0
LPM1360-1R0M	1R0	1.0	21	40	3.5
LPM1360-1R2M	1R2	1.2	21	38	3.6
LPM1360-1R5M	1R5	1.5	21	35	4.0
LPM1360-1R8M	1R8	1.8	20	33	4.2
LPM1360-2R2M	2R2	2.2	20	32	4.5
LPM1360-3R3M	3R3	3.3	15	30	8.2
LPM1360-4R7M	4R7	4.7	12	25	13.5
LPM1360-5R6M	5R6	5.6	12	22	21.0
LPM1360-6R8M	6R8	6.8	11	20	23.0
LPM1360-8R2M	8R2	8.2	10.5	18	15.5
LPM1360-100M	100	10	10	12.5	30.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc @25℃.
- Testing Instrument : LHP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -55℃ ~ +125℃.

Dimensions(mm)



Note:All specifications subject to change without notice.

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SMD MOLDED POWER INDUCTORS

LPM 1510 SERIES



FEATURES:

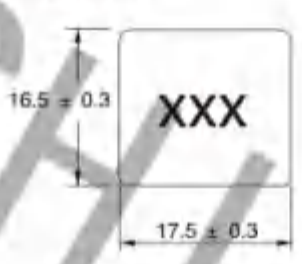
- High current; very low DCR
- Shielded construction.
- AEC-Q200 Grade 1 qualified (-40℃ to +125℃ ambient)
- Soft saturation makes them ideal for VRM/VRD applications
- Environmental RoHS compliant

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1510-4R7M	4.7	30.0	39.0	3.4	3.8
LPM1510-5R6M	5.6	28.0	34.0	3.82	4.2
LPM1510-6R8M	6.8	26.0	31.0	4.18	4.6
LPM1510-8R2M	8.2	25.0	28.0	6.0	7.2
LPM1510-100M	10	24.0	26.0	7.1	8.6
LPM1510-150M	15	18.0	20.0	9.2	11.5
LPM1510-220M	22	16.0	18.0	13.2	15.8
LPM1510-330M	33	13.0	16.7	18.7	20.0

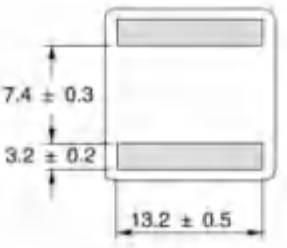
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

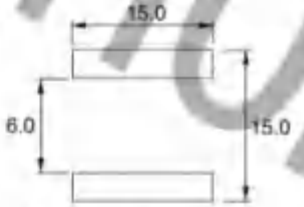
Dimensions(mm)











Recommended land pattern

- Test Frequency : 1MHz / 0.1Vdc @25℃.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Operating voltage: 0-55V
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 30%
- The part temperature (ambient + temp rise) should not exceed 165℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Ambient Temperature: -55℃ ~ +125℃.
- Storage Temperature: -55℃ ~ +165℃.

Note:All specifications subject to change without notice.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM 1513 SERIES



FEATURES:

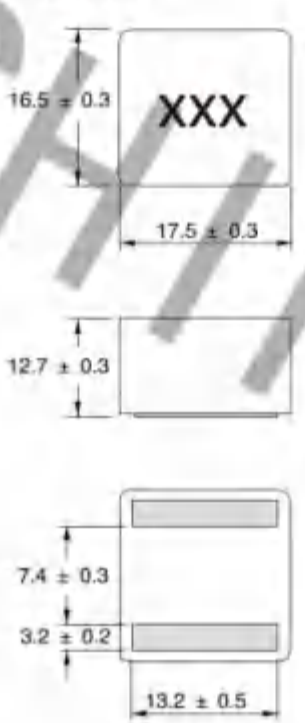
- High current; very low DCR
- Shielded construction.
- AEC-Q200 Grade 1 qualified (-40℃ to +125℃ ambient)
- Soft saturation makes them ideal for VRM/VRD applications
- Environmental RoHS compliant

ELECTRICAL CHARACTERISTICS:

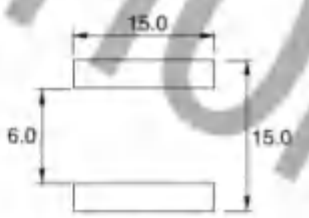
Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM1513-4R7M	4.7	31.0	40.0	3.0	3.3
LPM1513-5R6M	5.6	29.0	35.0	3.5	3.9
LPM1513-6R8M	6.8	27.0	32.0	3.8	4.2
LPM1513-8R2M	8.2	26.0	29.0	5.1	5.74
LPM1513-100M	10	25.0	27.0	6.3	7.0
LPM1513-150M	15	22.0	19.0	6.5	7.2
LPM1513-220M	22	17.0	19.0	12.6	13.86
LPM1513-330M	33	14.0	16.0	18.5	22.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)







Recommended land pattern

- Test Frequency : 1MHz / 0.1Vdc @25℃.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Operating voltage: 0-55V
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 30%
- The part temperature (ambient + temp rise) should not exceed 165℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Ambient Temperature: -55℃ ~ +125℃.
- Storage Temperature: -55℃ ~ +165℃.

Note:All specifications subject to change without notice.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0110 SERIES



FEATURES:

- High performance (test) realized by metal dust core.
- Low profile: 1.20mm x 1.00mm x 0.65mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLCATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance tolerance	Inductance L0(μH) @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM0110-R22M	20%	0.22	1.7	2.16	60
LPM0110-R33M	20%	0.33	1.53	1.90	80
LPM0110-R47M	20%	0.47	1.40	1.40	98
LPM0110-1R0M	20%	1.0	0.95	1.04	201
LPM0110-1R5M	20%	1.5	0.81	0.74	276
LPM0110-2R2M	20%	2.2	0.75	0.61	338
LPM0110-3R3M	20%	3.3	0.52	0.47	516
LPM0110-4R7M	20%	4.7	0.43	0.41	748
LPM0110-100M	20%	10	0.32	0.32	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 1.0MHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0420C SERIES



FEATURES:

- High performance (low) realized by Carbonyl iron powder
- Low profile: 4.5mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

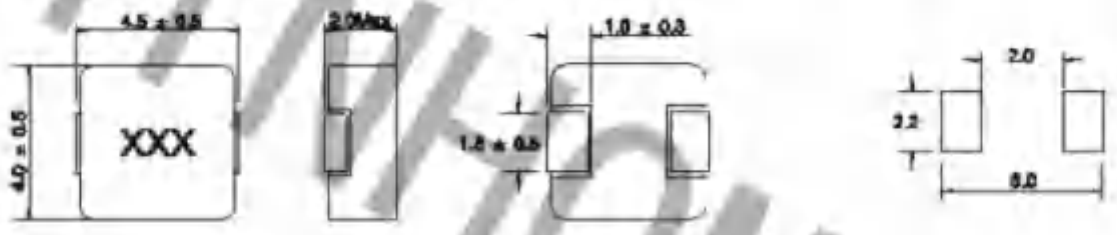
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0420C-R10M	0.10	18.0	35.0	3.50	4.20
LPM0420C-R15M	0.15	15.0	26.0	3.70	4.50
LPM0420C-R22M	0.22	12.0	23.0	5.10	6.00
LPM0420C-R33M	0.33	10.0	17.0	8.30	9.80
LPM0420C-R47M	0.47	9.0	15.0	12.8	16.0
LPM0420C-R56M	0.56	8.0	13.0	13.0	16.0
LPM0420C-R68M	0.68	7.0	12.0	16.0	19.0
LPM0420C-1R0M	1.0	6.0	10.0	23.5	28.0
LPM0420C-1R2M	1.2	5.0	9.0	27.0	32.0
LPM0420C-1R5M	1.5	4.5	8.0	31.0	37.0
LPM0420C-2R2M	2.2	4.0	7.0	53.0	80.0
LPM0420C-3R3M	3.3	3.5	6.0	86.0	95.0
LPM0420C-4R7M	4.7	3.0	5.0	112.0	125.0
LPM0420C-5R6M	5.6	2.8	4.5	146.0	173.0
LPM0420C-6R8M	6.8	2.5	4.0	165.0	185.0
LPM0420C-8R2M	8.2	2.0	3.0	241.0	280.0
LPM0420C-100M	10.0	1.8	3.0	265.0	310.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINKOSA

SMD MOLDED POWER INDUCTORS

LPM0515C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low profile: 5.5mm x 5.2mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

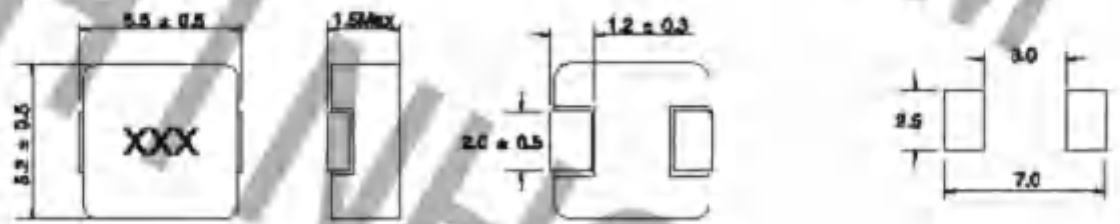
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0515C-R15M	0.15	16.0	26.0	4.50	5.40
LPM0515C-R22M	0.22	15.0	25.0	6.50	7.80
LPM0515C-R47M	0.47	12.0	20.0	11.0	13.0
LPM0515C-R68M	0.68	10.0	15.0	11.8	13.5
LPM0515C-1R0M	1.0	8.0	10.0	19.5	24.0
LPM0515C-2R2M	2.2	5.0	7.0	53.0	70.0
LPM0515C-3R3M	3.3	4.0	6.0	68.0	78.0
LPM0515C-4R7M	4.7	3.0	5.0	108.0	118.0
LPM0515C-5R6M	5.6	2.8	4.5	126.0	140.0
LPM0515C-6R8M	6.8	2.5	4.2	142.0	155.0
LPM0515C-8R2M	8.2	2.4	4.0	175.0	190.0
LPM0515C-100M	10.0	2.3	3.8	255.0	280.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0518C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low profile: 5.6mm x 5.2mm x 1.8mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

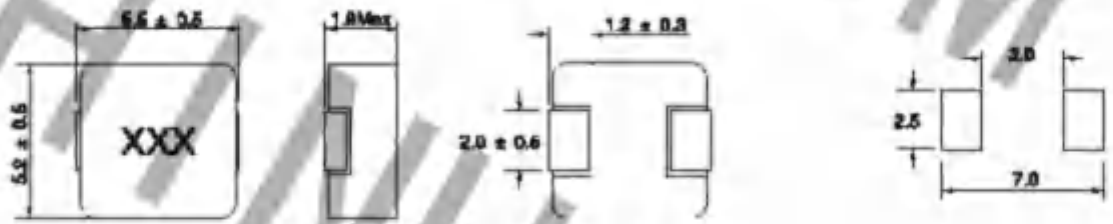
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

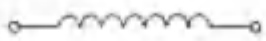
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0518C-R22M	0.22	16.0	28.0	4.40	5.30
LPM0518C-R47M	0.47	13.0	22.0	6.00	8.50
LPM0518C-1R0M	1.0	8.0	14.0	14.0	16.5
LPM0518C-2R2M	2.2	6.0	8.0	36.0	48.0
LPM0518C-4R7M	4.7	3.5	5.5	76.0	85.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM0520C SERIES



FEATURES:

- High performance (low) realized by Carbonyl iron powder
- Low profile: 5.5mm x 5.2mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

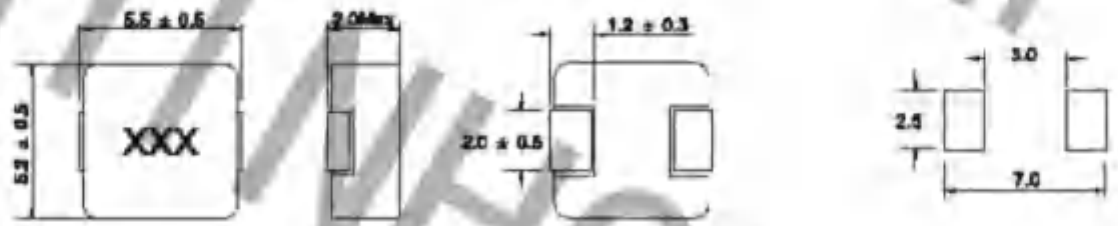
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0520C-R10M	0.10	20.0	32.0	3.00	3.60
LPM0520C-R22M	0.22	18.0	28.0	4.30	5.20
LPM0520C-R33M	0.33	16.0	26.0	8.6	10.5
LPM0520C-R47M	0.47	14.0	24.0	8.6	10.5
LPM0520C-R68M	0.68	12.0	18.0	12.0	15.0
LPM0520C-1R0M	1.0	10.0	15.0	17.0	20.0
LPM0520C-1R5M	1.5	7.0	13.0	28.0	33.0
LPM0520C-2R2M	2.2	6.0	9.0	33.0	39.0
LPM0520C-3R3M	3.3	5.0	6.0	60.0	70.0
LPM0520C-4R7M	4.7	4.0	6.0	84.0	98.0
LPM0520C-5R6M	5.6	3.5	5.0	84.0	95.0
LPM0520C-6R8M	6.8	3.0	4.5	93.0	105.0
LPM0520C-8R2M	8.2	2.5	4.0	132.0	145.0
LPM0520C-100M	10.0	2.0	3.5	165.0	175.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHENZHEN CHINFOO

SMD MOLDED POWER INDUCTORS

LPM0530C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 5.6mm x 5.2mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

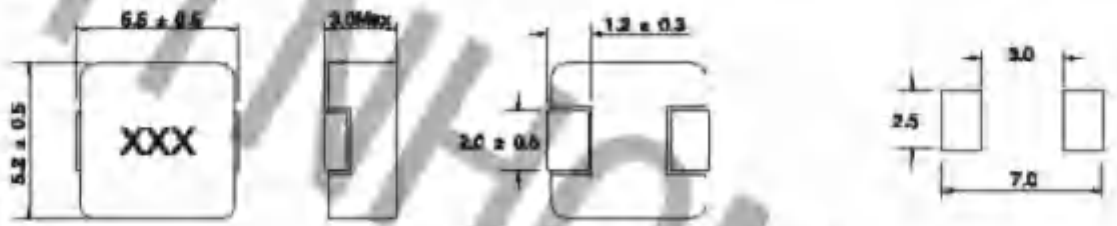
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0530C-R10M	0.10	23.0	38.0	2.80	3.30
LPM0530C-R15M	0.15	22.0	35.0	2.80	3.50
LPM0530C-R22M	0.22	19.0	32.0	4.00	5.00
LPM0530C-R33M	0.33	18.0	28.0	5.10	6.00
LPM0530C-R47M	0.47	16.0	26.0	6.50	8.00
LPM0530C-R68M	0.68	14.0	24.0	8.0	10.0
LPM0530C-1R0M	1.0	12.0	18.0	11.5	14.0
LPM0530C-1R2M	1.2	11.0	16.0	11.5	14.0
LPM0530C-1R5M	1.5	9.0	14.0	15.5	18.5
LPM0530C-2R2M	2.2	8.0	13.0	25.5	31.0
LPM0530C-3R3M	3.3	7.0	11.0	32.5	37.0
LPM0530C-4R7M	4.7	5.5	9.0	56.0	66.0
LPM0530C-5R6M	5.6	5.0	8.0	63.0	72.0
LPM0530C-6R8M	6.8	4.5	7.0	76.0	86.0
LPM0530C-100M	10.0	4.0	6.0	111.0	122.0
LPM0530C-150M	15.0	3.0	5.0	153.0	166.0
LPM0530C-330M	33.0	2.0	3.5	315.0	340.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will causes an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0620C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

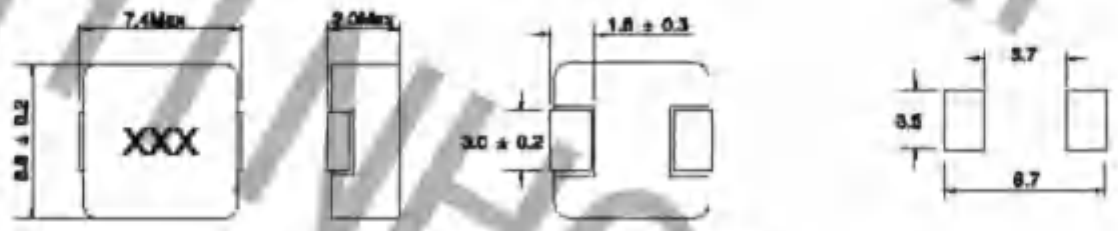
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0620C-R10M	0.10	21.0	45.0	2.70	3.30
LPM0620C-R22M	0.22	17.0	30.0	2.80	3.50
LPM0620C-R33M	0.33	15.0	26.0	5.60	7.00
LPM0620C-R47M	0.47	11.0	23.0	6.10	7.60
LPM0620C-R68M	0.68	10.0	21.0	9.8	12.0
LPM0620C-1R0M	1.00	9.0	20.0	16.0	19.0
LPM0620C-1R5M	1.50	8.0	16.0	22.0	26.0
LPM0620C-2R2M	2.20	6.0	12.0	32.0	38.0
LPM0620C-3R3M	3.30	5.0	9.0	45.0	53.0
LPM0620C-4R7M	4.70	4.5	8.0	53.0	62.0
LPM0620C-6R8M	6.80	4.0	6.0	114.0	128.0
LPM0620C-100M	10.00	3.0	5.0	147.0	183.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHENZHEN CHINFOA

SMD MOLDED POWER INDUCTORS

LPM0624C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.8mm x 2.4mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

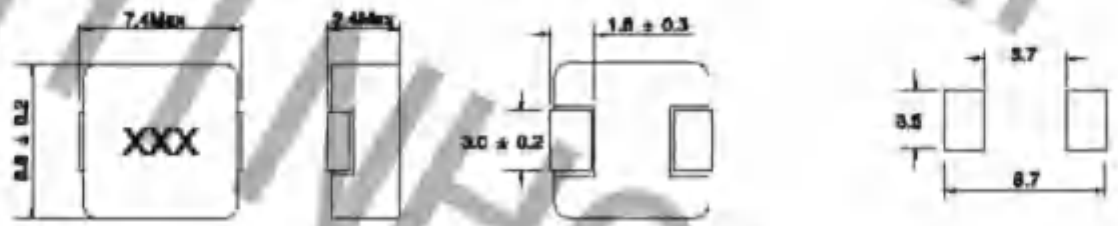
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0624C-R10M	0.10	30.0	60.0	1.30	1.60
LPM0624C-R22M	0.22	21.0	34.0	2.50	3.00
LPM0624C-R47M	0.47	16.0	26.0	4.00	4.80
LPM0624C-R68M	0.68	14.0	23.0	7.10	8.50
LPM0624C-R82M	0.82	13.0	22.0	9.6	11.5
LPM0624C-1R0M	1.0	12.0	20.0	11.3	13.0
LPM0624C-1R5M	1.5	10.0	16.0	14.0	17.0
LPM0624C-2R2M	2.2	8.0	14.0	22.0	26.0
LPM0624C-3R3M	3.3	7.0	12.0	32.0	38.0
LPM0624C-4R7M	4.7	6.0	11.0	47.0	55.0
LPM0624C-6R8M	6.8	5.0	9.0	65.0	75.0
LPM0624C-8R2M	8.2	4.5	8.0	82.0	90.0
LPM0624C-100M	10.0	4.0	7.0	86.0	95.0
LPM0624C-150M	15.0	3.5	6.0	122.0	136.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0630C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

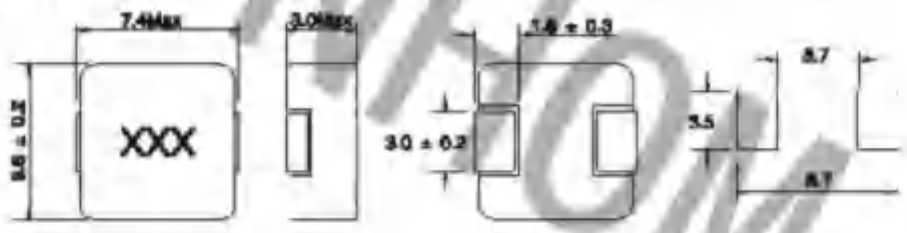
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

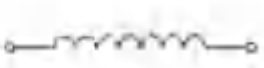
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM0630C-R10M	0.10	30.0	75.0	1.20	1.50
LPM0630C-R12M	0.12	29.0	60.0	1.70	2.10
LPM0630C-R15M	0.15	28.0	53.0	1.70	2.10
LPM0630C-R22M	0.22	25.0	45.0	2.20	2.70
LPM0630C-R33M	0.33	23.0	35.0	2.80	3.20
LPM0630C-R36M	0.36	22.0	32.0	3.20	4.00
LPM0630C-R47M	0.47	21.0	31.0	3.50	4.50
LPM0630C-R68M	0.68	20.0	30.0	4.90	6.00
LPM0630C-R82M	0.82	16.0	28.0	7.30	8.50
LPM0630C-1R0M	1.0	13.0	26.0	7.50	9.00
LPM0630C-1R2M	1.2	12.0	22.0	9.3	11.0
LPM0630C-1R5M	1.5	11.0	20.0	10.5	13.0
LPM0630C-2R2M	2.2	10.0	18.0	14.5	18.5
LPM0630C-3R3M	3.3	9.0	15.0	25.0	30.0
LPM0630C-4R7M	4.7	8.0	14.0	36.0	40.0
LPM0630C-5R6M	5.6	7.0	13.0	43.0	51.0
LPM0630C-6R8M	6.8	6.0	11.0	54.0	63.0
LPM0630C-100M	10.0	4.5	8.0	78.0	88.0
LPM0630C-150M	15.0	3.5	6.0	94.0	105.0
LPM0630C-220M	22.0	2.5	4.0	122.0	138.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency / 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0640C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

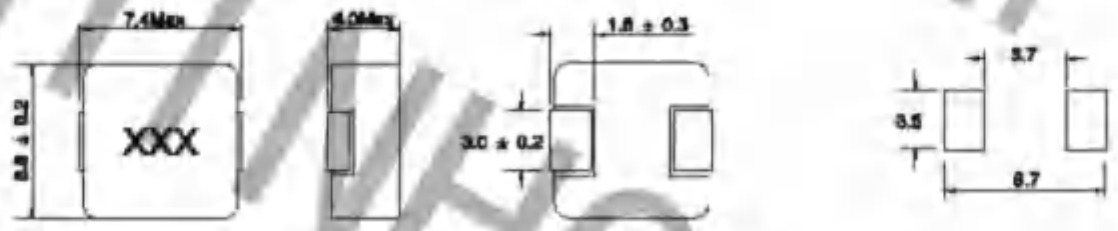
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0640C-R15M	0.15	40.0	65.0	0.65	0.80
LPM0640C-R22M	0.22	35.0	48.0	0.99	1.05
LPM0640C-R33M	0.33	25.0	36.0	1.80	2.04
LPM0640C-R56M	0.56	22.0	30.0	3.50	4.50
LPM0640C-1R0M	1.0	14.0	25.0	5.70	7.00
LPM0640C-2R2M	2.2	11.0	20.0	11.2	13.5
LPM0640C-3R3M	3.3	9.0	16.0	15.0	18.0
LPM0640C-4R7M	4.7	8.0	15.0	22.0	26.0
LPM0640C-5R6M	5.6	7.0	14.0	29.0	35.0
LPM0640C-6R8M	6.8	6.5	13.0	31.0	37.0
LPM0640C-100M	10.0	5.0	12.0	59.0	70.0
LPM0640C-120M	12.0	4.0	6.0	65.0	80.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0650C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

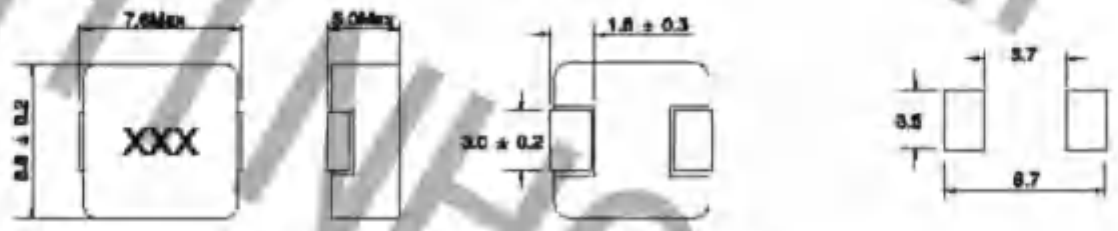
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0650C-R47M	0.47	22.0	30.0	3.20	3.68
LPM0650C-1R0M	1.0	15.0	26.0	6.00	7.50
LPM0650C-2R2M	2.2	11.0	18.0	9.80	12.0
LPM0650C-3R3M	3.3	9.0	17.0	17.5	20.0
LPM0650C-4R7M	4.7	7.0	16.0	28.0	32.0
LPM0650C-5R6M	5.6	7.0	15.0	29.0	33.0
LPM0650C-6R8M	6.8	6.5	13.0	33.5	40.0
LPM0650C-100M	10.0	6.0	12.0	47.0	55.0
LPM0650C-150M	15.0	5.0	10.0	82.0	93.0
LPM0650C-220M	22.0	4.0	7.0	121.0	140.0
LPM0650C-330M	33.0	3.0	6.0	145.0	158.0
LPM0650C-470M	47.0	2.5	4.0	200.0	225.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM0830C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low profile: 9.2mm x 8.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

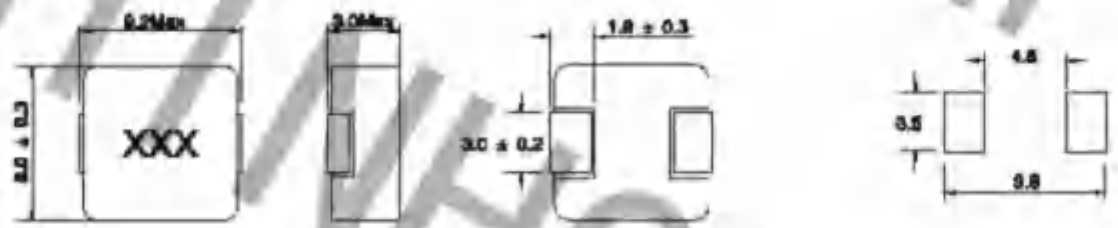
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0830C-R22M	0.22	30.0	55.0	1.50	1.80
LPM0830C-R33M	0.33	26.0	47.0	2.20	2.50
LPM0830C-R47M	0.47	20.0	36.0	3.10	3.90
LPM0830C-R68M	0.68	19.0	32.0	3.30	4.00
LPM0830C-1R0M	1.0	16.0	30.0	6.50	8.00
LPM0830C-1R5M	1.5	14.0	23.0	6.50	8.00
LPM0830C-2R2M	2.2	12.0	18.0	10.5	12.5
LPM0830C-3R3M	3.3	10.0	16.0	19.0	23.0
LPM0830C-4R7M	4.7	9.0	15.0	31.5	38.0
LPM0830C-5R6M	5.6	8.0	13.0	38.0	42.0
LPM0830C-6R8M	6.8	7.0	12.0	46.0	53.0
LPM0830C-8R2M	8.2	6.5	9.5	49.0	65.0
LPM0830C-100M	10.0	6.0	8.0	54.0	65.0
LPM0830C-330M	33.0	3.0	5.0	175.0	195.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINFON

SMD MOLDED POWER INDUCTORS

LPM0840C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 0.2mm x 8.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

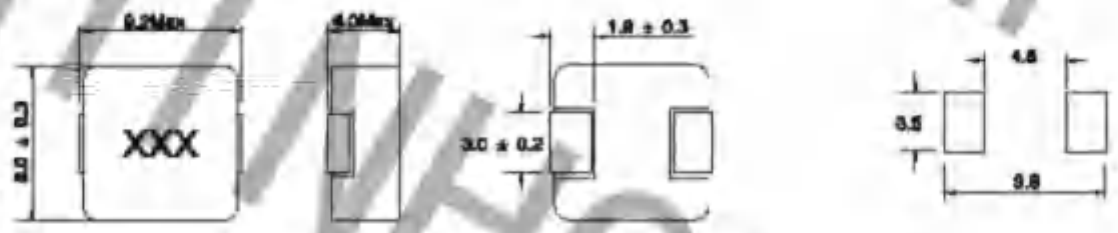
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0840C-R22M	0.22	32.0	60.0	1.80	2.00
LPM0840C-R33M	0.33	30.0	55.0	2.10	2.50
LPM0840C-R47M	0.47	25.0	45.0	2.50	3.00
LPM0840C-R82M	0.82	20.0	30.0	3.00	3.80
LPM0840C-1R0M	1.0	18.0	26.0	4.50	5.50
LPM0840C-1R5M	1.5	15.0	24.0	5.30	6.50
LPM0840C-2R2M	2.2	13.0	22.0	10.1	12.5
LPM0840C-3R3M	3.3	11.0	20.0	16.0	19.0
LPM0840C-8R2M	8.2	6.0	11.0	40.5	48.0
LPM0840C-100M	10.0	5.0	10.0	48.0	58.0
LPM0840C-150M	15.0	5.0	8.0	60.0	68.0
LPM0840C-220M	22.0	4.0	7.0	102.0	110.2
LPM0840C-470M	47.0	3.0	5.5	191.0	205.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM0850C SERIES



FEATURES:

- High performance (test) realized by Carbonyl Iron powder
- Low profile: 9.2mm x 8.0mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

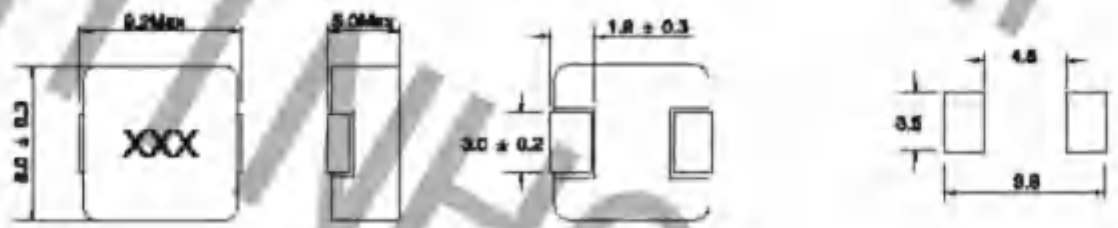
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0850C-R15M	0.15	45.0	60.0	0.55	0.65
LPM0850C-R22M	0.22	35.0	55.0	0.80	1.00
LPM0850C-1R0M	1.0	20.0	30.0	4.70	5.50
LPM0850C-1R5M	1.5	17.0	25.0	6.10	7.00
LPM0850C-2R2M	2.2	15.0	24.0	9.4	12.0
LPM0850C-4R7M	4.7	11.0	22.0	18.0	21.0
LPM0850C-6R8M	6.8	10.0	16.0	26.5	31.0
LPM0850C-100M	10.0	8.0	15.0	41.0	47.0
LPM0850C-220M	22.0	5.0	10.0	81.0	88.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will causes an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM1020C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 10.5mm x 10.3mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

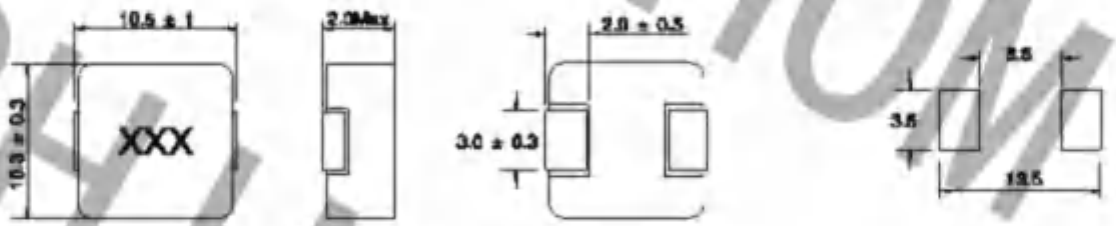
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1020C-R33M	0.33	29.0	38.0	1.80	2.30
LPM1020C-R47M	0.47	23.0	35.0	3.00	3.80
LPM1020C-1R0M	1.0	19.0	23.0	5.50	6.80
LPM1020C-2R2M	2.2	8.0	14.0	13.3	16.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM1030C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 10.6mm x 10.3mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

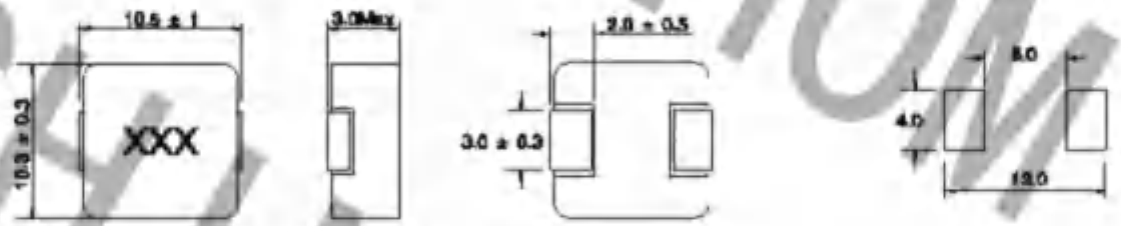
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

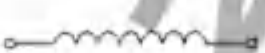
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1030C-R36M	0.36	25.0	55.0	1.30	1.50
LPM1030C-1R0M	1.0	16.0	33.0	5.60	6.00
LPM1030C-1R2M	1.2	17.0	32.0	6.60	8.00
LPM1030C-1R5M	1.5	14.0	26.0	7.80	9.80
LPM1030C-2R2M	2.2	12.0	20.0	9.0	11.0
LPM1030C-3R3M	3.3	9.0	16.0	14.0	17.0
LPM1030C-4R7M	4.7	8.0	15.0	16.5	19.5
LPM1030C-6R8M	6.8	7.0	12.0	32.5	38.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1040C SERIES



FEATURES:

- High performance (low) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

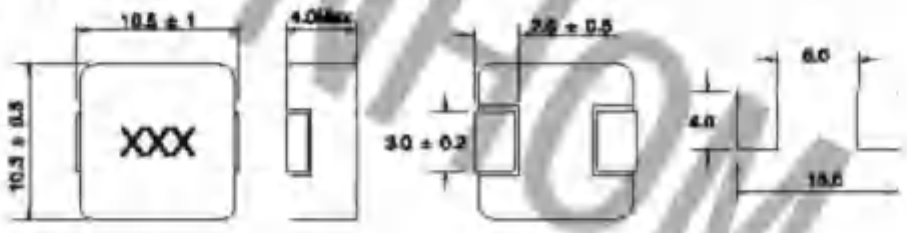
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1040C-R19M	0.19	40.0	100.0	0.79	0.95
LPM1040C-R22M	0.22	36.0	80.0	0.85	0.80
LPM1040C-R33M	0.33	32.0	70.0	1.05	1.30
LPM1040C-R36M	0.36	31.0	65.0	1.10	1.35
LPM1040C-R47M	0.47	30.0	60.0	1.15	1.40
LPM1040C-R56M	0.56	28.0	55.0	1.65	1.80
LPM1040C-R66M	0.66	25.0	50.0	2.20	2.60
LPM1040C-R82M	0.82	24.0	41.0	2.10	2.50
LPM1040C-1R0M	1.0	22.0	40.0	2.15	2.50
LPM1040C-1R2M	1.2	20.0	35.0	2.85	3.50
LPM1040C-1R5M	1.5	18.0	30.0	4.30	5.20
LPM1040C-2R2M	2.2	16.0	26.0	5.30	6.50
LPM1040C-3R3M	3.3	14.0	25.0	10.30	13.00
LPM1040C-4R7M	4.7	12.0	20.0	13.50	16.00
LPM1040C-5R6M	5.6	10.0	18.0	15.50	18.50
LPM1040C-6R8M	6.8	9.0	15.0	21.50	26.00
LPM1040C-8R2M	8.2	8.0	14.0	30.00	36.00
LPM1040C-100M	10	7.0	13.0	32.00	38.00
LPM1040C-220M	22	6.0	9.0	57.00	85.00
LPM1040C-330M	33	4.5	7.5	105.00	118.00
LPM1040C-470M	47	3.5	5.5	129.00	145.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency / 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1050C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

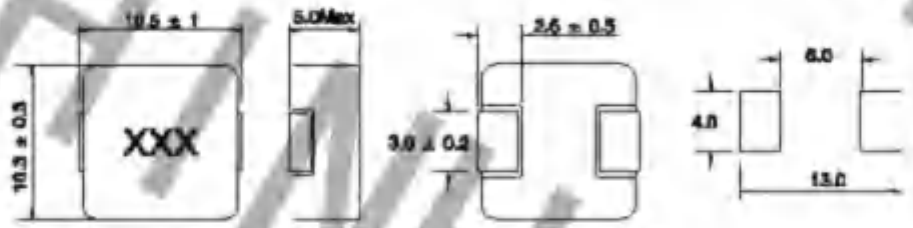
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

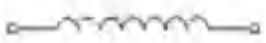
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM1040C-R36M	0.36	33.0	80.0	0.78	1.00
LPM1040C-R47M	0.47	32.0	70.0	1.10	1.40
LPM1040C-R56M	0.56	30.0	55.0	1.30	1.60
LPM1040C-R68M	0.68	28.0	50.0	1.30	1.60
LPM1040C-1R0M	1.00	24.0	45.0	2.10	2.50
LPM1040C-1R5M	1.50	20.0	42.0	2.90	3.50
LPM1040C-2R2M	2.20	16.0	40.0	6.0	7.10
LPM1040C-3R3M	3.30	16.0	30.0	7.5	10.0
LPM1040C-4R7M	4.70	14.0	23.0	9.8	12.0
LPM1040C-5R6M	5.60	12.0	20.0	11.5	14.0
LPM1040C-6R8M	6.80	11.0	19.0	14.8	18.0
LPM1040C-8R2M	8.20	10.0	16.0	23.0	27.0
LPM1040C-100M	10.00	9.0	15.0	24.5	28.0
LPM1040C-150M	15.00	7.0	11.0	45.0	53.0
LPM1040C-220M	22.00	6.0	10.0	45.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



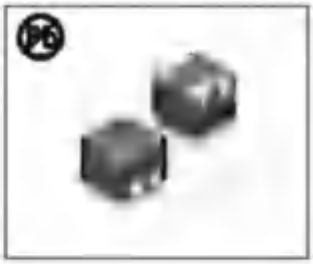
Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM1050D SERIES



FEATURES:

- Alloy iron powder Molded structure
- Low profile: 11.5mm x 10.2mm x 5.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

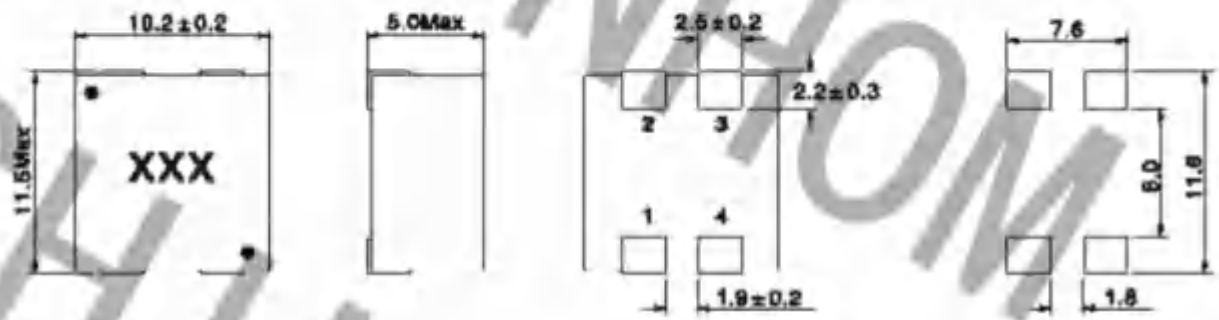
- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

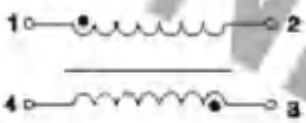
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)=(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)=(3-4)	DCR Max. (mΩ). (1-2)=(3-4)
LPM1050D-3R3M	3.3	7.0	32.0	18.3	22.0
LPM1050D-4R7M	4.7	6.0	30.0	27.0	32.0
LPM1050D-5R6M	5.6	5.0	22.0	38.5	45.0
LPM1050D-150M	15.0	3.0	13.0	82.0	95.0
LPM1050D-220M	22.0	2.5	10.0	102.0	115.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency: 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM1060C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 11.3mm x 10mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

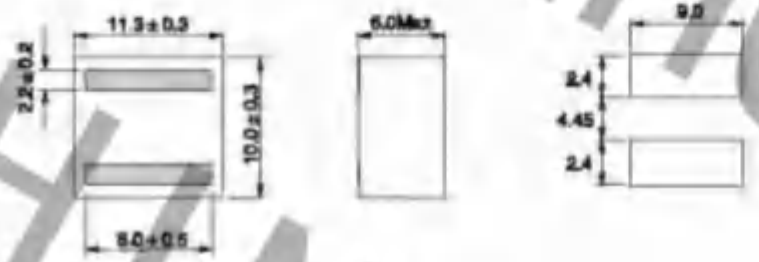
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1060C-1R0M	1.0	28.5	45.0	2.4	2.70
LPM1060C-1R5M	1.5	24.4	35.0	3.0	3.30
LPM1060C-2R2M	2.2	20.0	32.0	4.5	4.95
LPM1060C-3R3M	3.3	16.8	26.0	7.2	7.92
LPM1060C-4R7M	4.7	14.0	25.0	9.6	10.72

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM1080D SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 11.2mm x 11.2mm x 8.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

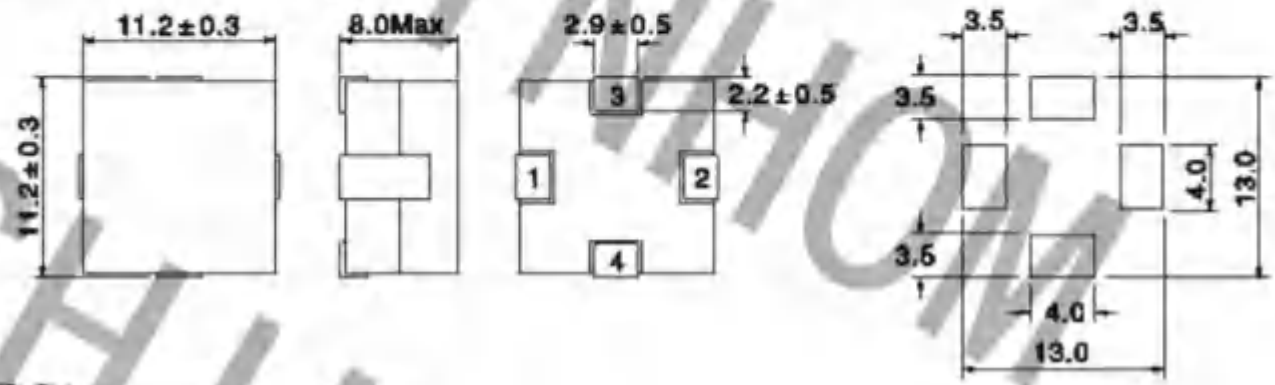
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

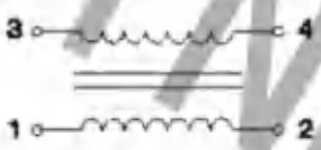
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1080D-8R2M	8.2	14.0	6.0	32.8	36.2
LPM1080D-100M	10.0	13.0	5.5	44.8	49.5
LPM1080D-150M	15.0	12.0	4.5	66.2	71.5
LPM1080D-220M	22.0	9.0	4.0	105.3	115.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHIHOM

SMD MOLDED POWER INDUCTORS

LPM1090D SERIES



FEATURES:

- Alloy iron powder Molded structure
- Low profile: 11.5mm x 10.2mm x 9.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

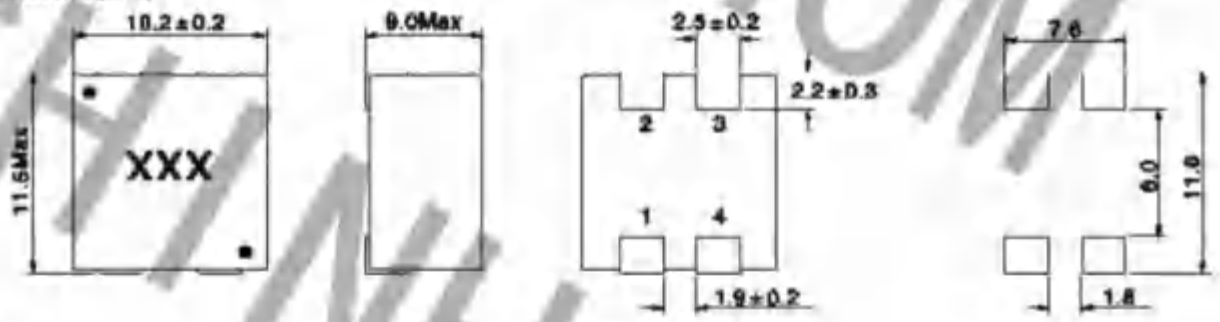
- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

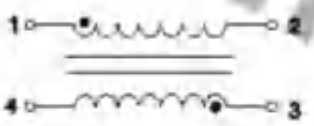
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)-(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)-(3-4)	DCR Max. (mΩ). (1-2)-(3-4)
LPM1090D-1R0M	1.0	17.0	42.5	4.8	5.6
LPM1090D-1R5M	1.5	12.5	34.0	8.7	9.4
LPM1090D-2R2M	2.2	11.5	29.5	10.6	12.5
LPM1090D-3R3M	3.3	7.5	26.2	23.3	26.0
LPM1090D-4R7M	4.7	7.0	24.2	36.2	40.6
LPM1090D-5R6M	5.6	6.5	21.2	46.1	51.5
LPM1090D-6R2M	6.2	6.0	18.5	56.3	63.0
LPM1090D-100M	10.0	5.5	17.0	62.5	69.0
LPM1090D-150M	15.0	5.0	22.0	73.0	87.0
LPM1090D-220M	22.0	4.0	18.0	91.0	106.0
LPM1090D-330M	33.0	3.5	10.0	121.5	145.0
LPM1090D-470M	47.0	2.3	8.0	218.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency: 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃.
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55℃ to +125℃.
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHIHOM

SMD MOLDED POWER INDUCTORS

LPM1213D SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 13.8mm x 13.8mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

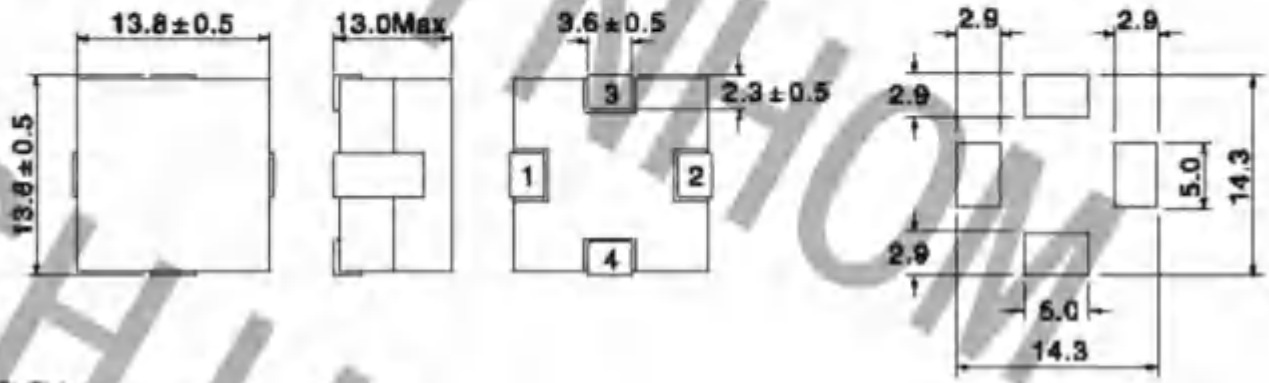
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

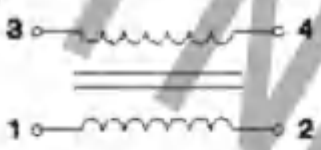
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1213D-8R2M	8.2	25.0	10.0	16.3	17.6
LPM1213D-100M	10.0	21.0	9.0	20.8	22.55
LPM1213D-150M	15.0	16.0	7.0	34.2	36.85
LPM1213D-220M	22.0	15.0	5.5	51.2	56.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%.
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHIHOM

SMD MOLDED POWER INDUCTORS

LPM1235C SERIES



FEATURES:

- High performance (low) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

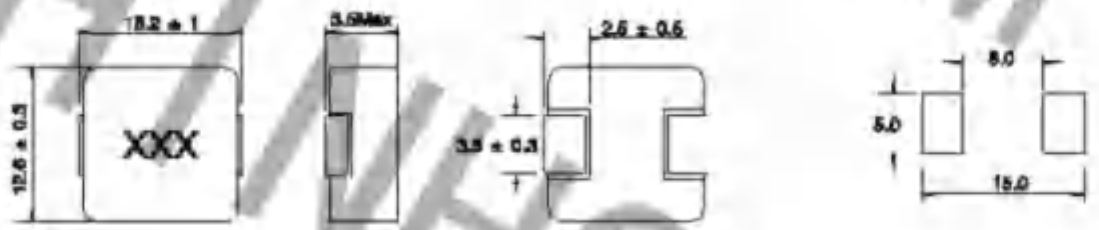
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM1235C-R10M	0.10	46.0	90.0	0.78	0.98
LPM1235C-R15M	0.15	46.0	80.0	0.65	0.85
LPM1235C-R22M	0.22	44.0	75.0	0.65	0.85
LPM1235C-R33M	0.33	36.0	70.0	1.10	1.40
LPM1235C-R47M	0.47	35.0	52.0	1.10	1.40
LPM1235C-R68M	0.68	28.0	62.0	2.10	2.50
LPM1235C-R82M	0.82	23.0	46.0	2.50	3.50
LPM1235C-1R0M	1.00	20.0	43.0	2.80	3.50
LPM1235C-1R5M	1.50	18.0	40.0	4.70	5.50
LPM1235C-2R2M	2.20	16.0	32.0	7.80	9.00
LPM1235C-3R3M	3.30	13.0	26.0	11.0	13.5
LPM1235C-4R7M	4.70	12.5	22.0	13.0	15.0
LPM1235C-5R6M	5.60	12.0	20.0	19.2	23.0
LPM1235C-6R8M	6.80	11.0	18.0	20.0	25.0
LPM1235C-8R2M	8.20	8.5	15.0	26.0	32.0
LPM1235C-100M	10.00	7.0	14.0	29.5	34.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is references to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM1250C SERIES



FEATURES:

- High performance (low) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

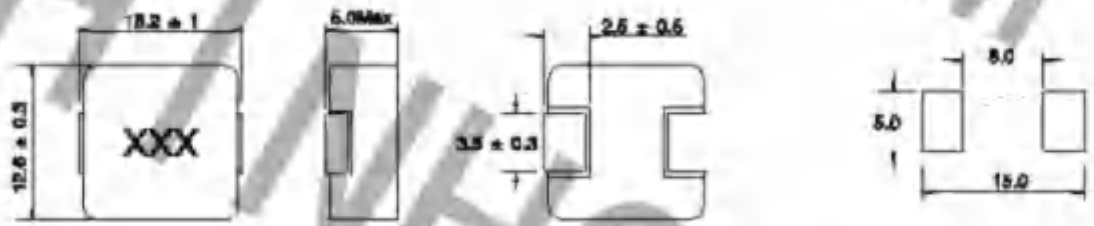
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.,
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1250C-R10M	0.10	50.0	90.0	0.26	0.40
LPM1250C-R33M	0.33	42.0	65.0	0.75	1.10
LPM1250C-R36M	0.36	41.0	60.0	0.82	1.10
LPM1250C-R47M	0.47	40.0	75.0	0.90	1.20
LPM1250C-R68M	0.68	35.0	65.0	1.00	1.50
LPM1250C-R82M	0.82	32.0	60.0	1.70	2.20
LPM1250C-1R0M	1.0	29.0	55.0	2.10	2.50
LPM1250C-1R5M	1.5	25.0	50.0	2.70	3.50
LPM1250C-2R2M	2.2	20.0	40.0	4.30	5.50
LPM1250C-3R3M	3.3	16.0	35.0	7.2	9.0
LPM1250C-4R7M	4.7	14.0	33.0	10.4	13.0
LPM1250C-6R8M	6.8	12.0	26.0	15.0	18.0
LPM1250C-100M	10.0	10.0	18.0	25.5	30.0
LPM1250C-220M	22.0	7.0	11.0	45.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHENZHEN CHINFOO

SMD MOLDED POWER INDUCTORS

LPM1260C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

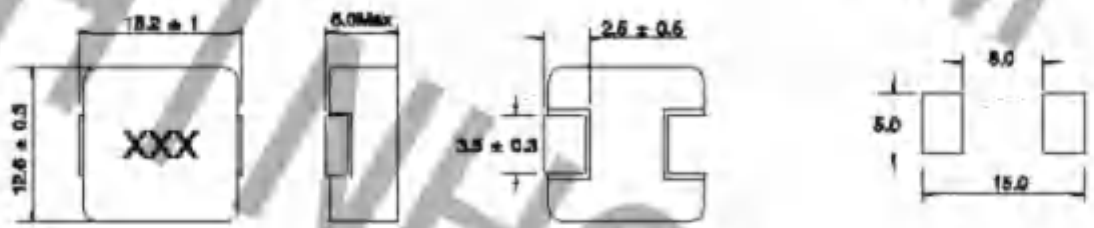
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

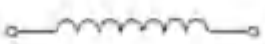
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM1260C-R33M	0.33	45.0	90.0	0.75	1.00
LPM1260C-R39M	0.39	42.0	85.0	1.00	1.30
LPM1260C-R68M	0.68	36.0	70.0	1.10	1.40
LPM1260C-R82M	0.82	33.0	66.0	2.00	2.50
LPM1260C-1R0M	1.0	32.0	60.0	2.10	2.60
LPM1260C-1R5M	1.5	27.0	52.0	2.60	3.30
LPM1260C-2R2M	2.2	23.0	46.0	4.7	6.0
LPM1260C-3R3M	3.3	18.0	43.0	6.2	8.0
LPM1260C-4R7M	4.7	16.0	35.0	7.5	9.5
LPM1260C-6R8M	6.8	13.0	26.0	12.8	15.0
LPM1260C-100M	10.0	11.0	20.0	15.8	18.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHENHOM SHENHOM

SMD MOLDED POWER INDUCTORS

LPM1265C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

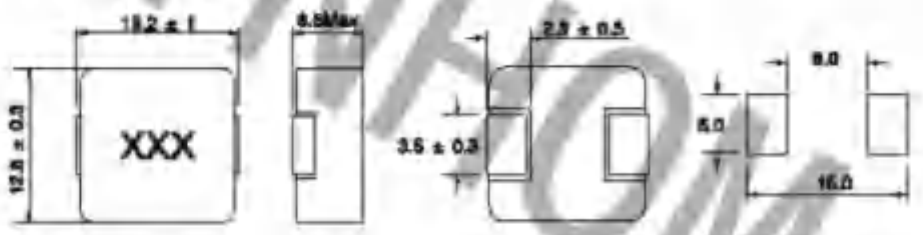
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM1265C-R15M	0.15	80.0	120.0	0.37	0.50
LPM1265C-R22M	0.22	50.0	110.0	0.50	0.60
LPM1265C-R33M	0.33	48.0	100.0	0.60	0.80
LPM1265C-R47M	0.47	45.0	90.0	0.80	1.10
LPM1265C-R56M	0.56	40.0	80.0	1.00	1.30
LPM1265C-R68M	0.68	38.0	72.0	1.40	1.80
LPM1265C-1R0M	1.0	32.0	60.0	1.7	2.2
LPM1265C-1R5M	1.5	26.0	55.0	2.5	3.2
LPM1265C-2R2M	2.2	23.0	50.0	4.1	5.0
LPM1265C-3R3M	3.3	20.0	40.0	5.3	6.5
LPM1265C-4R7M	4.7	18.0	36.0	7.6	9.5
LPM1265C-5R6M	5.6	15.0	34.0	9.6	11.5
LPM1265C-6R8M	6.8	13.0	30.0	11.4	14.0
LPM1265C-100M	10.0	12.0	21.0	12.5	15.0
LPM1265C-150M	15.0	10.0	19.0	27.5	33.0
LPM1265C-220M	22.0	9.0	16.0	35.5	42.0
LPM1265C-330M	33.0	8.0	15.0	47.0	55.0
LPM1265C-470M	47.0	6.0	12.0	90.0	105.0
LPM1265C-560M	56.0	5.5	10.0	100.0	120.0
LPM1265C-680M	68.0	5.0	8.0	103.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1280C SERIES



FEATURES:

- High performance (last) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

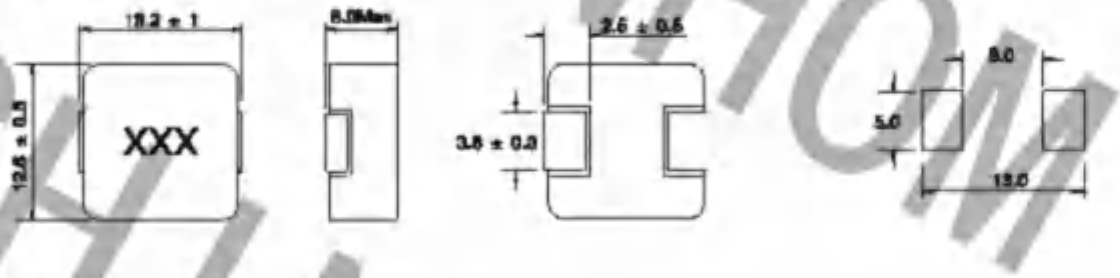
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1280C-1R0M	1.0	35.0	38.0	1.05	1.2
LPM1280C-1R5M	1.5	30.0	35.0	1.35	1.5
LPM1280C-2R2M	2.2	26.0	30.0	1.90	2.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM1770C SERIES



FEATURES:

- High performance (test) realized by Carbonyl Iron powder
- Low profile: 18.0mm x17.2mm x 7.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free and meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

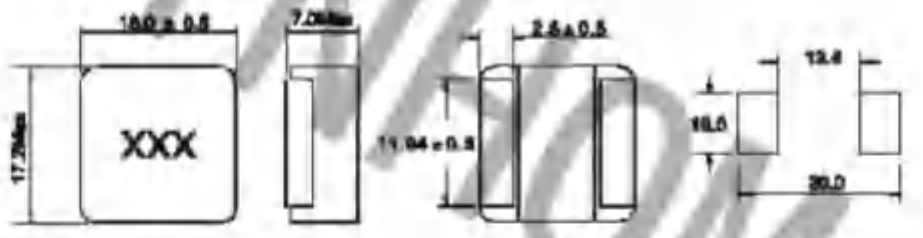
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1770C-1R0M	1.0	50.0	60.0	1.4	1.7
LPM1770C-1R5M	1.5	45.0	70.0	1.7	2.1
LPM1770C-2R2M	2.2	40.0	62.0	2.4	2.7
LPM1770C-3R3M	3.3	35.0	50.0	3.5	4.2
LPM1770C-4R7M	4.7	30.0	43.0	3.9	5.0
LPM1770C-5R6M	5.6	28.0	40.0	4.4	5.5
LPM1770C-6R8M	6.8	20.0	35.0	6.5	8.0
LPM1770C-8R2M	8.2	18.0	31.0	8.5	8.5
LPM1770C-100M	10.0	16.0	28.0	8.7	11.0
LPM1770C-150M	15.0	14.0	26.0	15.0	23.0
LPM1770C-220M	22.0	12.0	20.0	23.5	26.5
LPM1770C-330M	33.0	10.0	17.0	27.0	35.0
LPM1770C-470M	47.0	8.0	11.0	40.0	48.0
LPM1770C-560M	56.0	8.0	13.0	55.0	62.0
LPM1770C-680M	68.0	7.5	12.0	67.0	80.0
LPM1770C-101M	100.0	7.0	12.0	102.0	115.0
LPM1770C-151M	150.0	4.0	7.0	135.0	165.0
LPM1770C-221M	360.0	3.0	6.0	370.0	405.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100kHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2010C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 2.0mm x 1.6mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

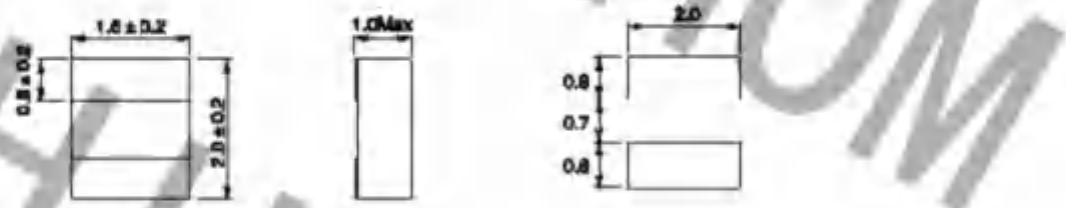
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM2010C-R24M	0.24	6.3	7.2	16.5	20.0
LPM2010C-R33M	0.33	3.8	5.5	42.0	46.0
LPM2010C-R47M	0.47	4.5	7.0	30.0	35.0
LPM2010C-R56M	0.56	3.3	4.8	51.0	59.0
LPM2010C-R68M	0.68	4.0	4.5	46.0	52.0
LPM2010C-1R0M	1.00	3.0	3.5	65.0	76.0
LPM2010C-1R5M	1.50	2.1	3.0	105.0	120.0
LPM2010C-2R2M	2.20	1.5	2.4	180.0	204.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM2213C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 22.5mm x22.0mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

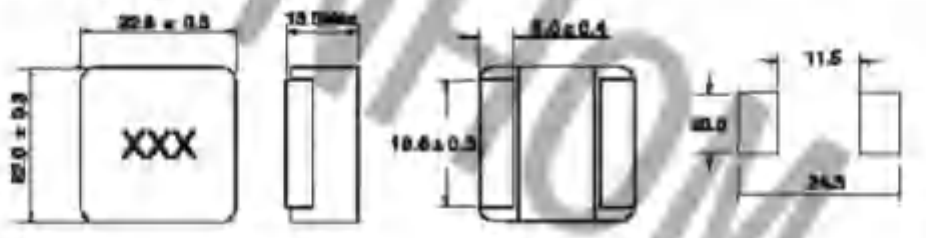
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps (sat)(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM2213C-R47M	0.47	80.0	100.0	0.56	0.67
LPM2213C-1R0M	1.0	80.0	71.0	0.68	0.89
LPM2213C-1R5M	1.5	65.0	58.0	0.90	1.20
LPM2213C-2R2M	2.2	58.0	48.0	1.10	1.25
LPM2213C-3R3M	3.3	48.0	41.0	1.40	1.80
LPM2213C-4R7M	4.7	47.0	37.0	1.70	1.84
LPM2213C-5R6M	5.6	40.0	36.5	2.00	2.50
LPM2213C-6R8M	6.8	36.0	36.0	2.90	3.09
LPM2213C-100M	10.0	28.0	28.0	3.80	4.14
LPM2213C-150M	15.0	23.5	24.0	5.50	6.11
LPM2213C-220M	22.0	17.5	16.0	9.00	10.80
LPM2213C-330M	35.0	15.5	13.5	14.50	15.40
LPM2213C-470M	47.0	13.5	10.0	15.30	17.70
LPM2213C-560M	56.0	13.0	11.0	23.00	26.00
LPM2213C-680M	68.0	12.5	13.0	31.50	36.00
LPM2213C-750M	75.0	12.0	12.0	30.00	32.95
LPM2213C-820M	82.0	10.2	8.0	31.50	34.20
LPM2213C-101M	100.0	9.1	7.0	37.60	39.40
LPM2213C-151M	150.0	8.0	6A Drop 30%	65.00	80.00
LPM2213C-201M	200.0	6.0	7A Drop 30%	82.00	106.00
LPM2213C-221M	220.0	4.5	6A Drop 30%	106.00	125.00
LPM2213C-401M	400.0	4.5	6A Drop 30%	208.00	230.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate Δ T of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +155℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2510C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 2.5mm x 2.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

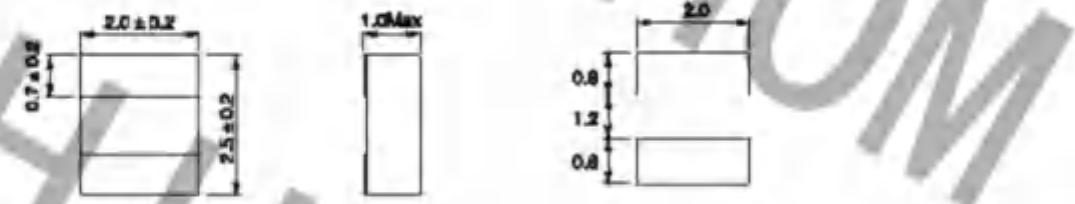
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM2510C-1R0M	1.0	3.5	4.5	45.0	52.0
LPM2510C-2R2M	2.2	2.3	3.0	102.0	118.0
LPM2510C-3R3M	3.3	1.8	2.3	125.0	142.0
LPM2510C-4R7M	4.7	1.5	1.8	204.0	236.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM2512C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 2.5mm x 2.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ).
LPM2512C-R22M	0.22	8.0	10.0	10.0	13.0
LPM2512C-R33M	0.33	6.5	9.0	13.8	20.0
LPM2512C-R47M	0.47	5.5	8.0	21.0	26.0
LPM2512C-R68M	0.68	5.2	6.5	29.5	35.0
LPM2512C-1R0M	1.0	5.0	5.5	30.0	35.0
LPM2512C-1R5M	1.5	3.2	5.0	62.0	70.0
LPM2512C-2R2M	2.2	2.8	3.5	85.0	92.0
LPM2512C-3R3M	3.3	2.0	3.0	123.0	140.0
LPM2512C-4R7M	4.7	1.8	2.5	175.0	195.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3210C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3210C-1R0M	1.0	4.0	6.0	40.0	48.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM3212C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

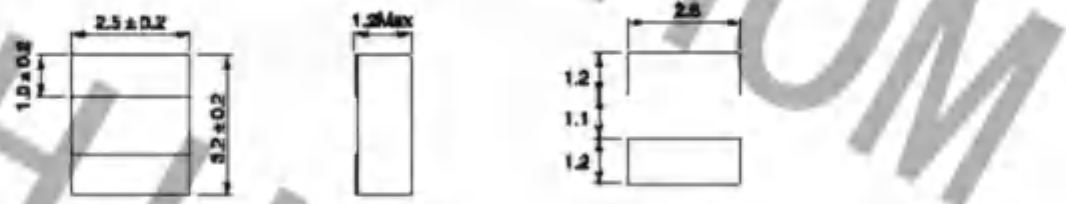
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3212C-4R7M	4.7	2.0	3.0	169.0	192.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM3215C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

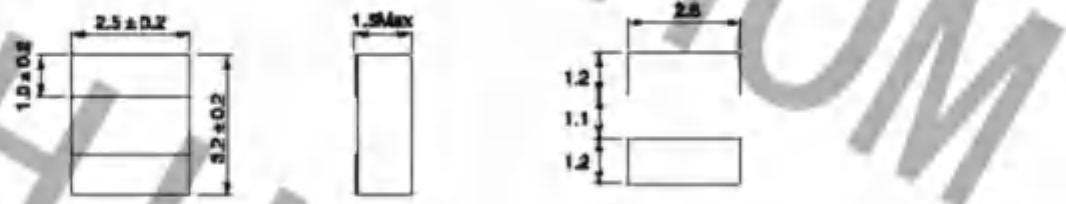
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM3215C-R22M	0.22	13.0	11.0	7.0	7.9

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM3220C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

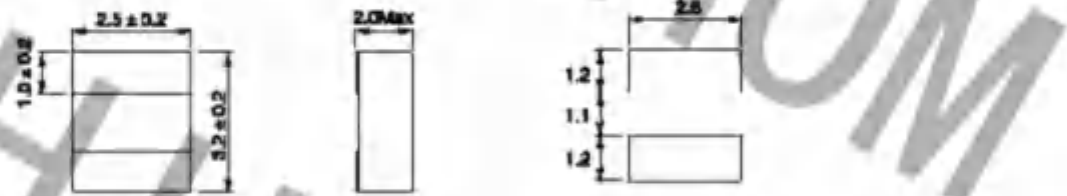
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM3220C-1R0M	1.00	5.4	10.0	17.8	22.0
LPM3220C-2R2M	2.20	4.0	7.0	42.0	50.0
LPM3220C-3R3M	3.30	3.0	5.5	56.0	66.0
LPM3220C-4R7M	4.70	2.8	4.5	96.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM SHINHOM SHINHOM

SMD MOLDED POWER INDUCTORS

LPM4010C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM4010C-1R0M	1.0	3.5	7.0	36.0	46.0
LPM4010C-2R2M	2.2	3.2	4.5	72.0	86.0
LPM4010C-3R3M	3.3	2.8	4.0	105.0	120.0
LPM4010C-4R7M	4.7	2.5	3.0	138.0	160.0
LPM4010C-6R8M	6.8	2.0	2.5	185.0	185.0
LPM4010C-100M	10.0	1.5	2.0	290.0	330.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions[mm]



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM4012C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

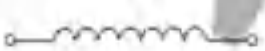
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ)
LPM4012C-R25M	0.25	8.0	11.0	8.0	10.0
LPM4012C-R47M	0.47	7.0	9.5	20.0	25.0
LPM4012C-R68M	0.68	6.0	8.0	25.0	30.0
LPM4012C-1R0M	1.0	5.0	7.0	27.0	33.0
LPM4012C-1R5M	1.5	4.2	6.5	45.0	55.0
LPM4012C-2R2M	2.2	4.0	6.0	52.0	63.0
LPM4012C-3R3M	3.3	3.5	5.0	78.0	90.0
LPM4012C-4R7M	4.7	3.0	4.5	96.0	110.0
LPM4012C-5R6M	5.6	2.5	4.0	121.0	140.0
LPM4012C-6R8M	6.8	2.3	3.5	140.0	160.0
LPM4012C-100M	10.0	1.8	2.5	210.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4015C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

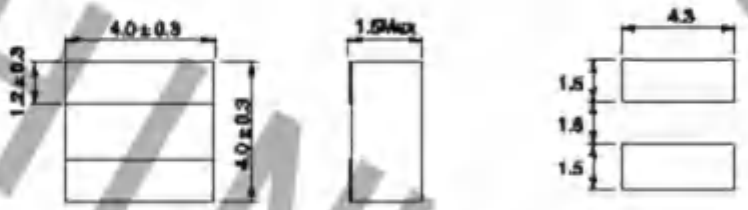
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

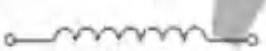
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ).
LPM4015C-R47M	0.47	9.2	10.0	12.0	15.0
LPM4015C-2R2M	2.2	6.0	6.5	35.0	39.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM4020C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

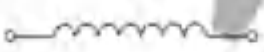
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ).
LPM4020C-R33M	0.33	15.0	20.0	6.00	6.00
LPM4020C-R47M	0.47	12.0	18.0	7.80	9.00
LPM4020C-R68M	0.68	10.0	15.0	9.8	13.0
LPM4020C-1R0M	1.0	8.0	12.0	14.0	17.0
LPM4020C-1R5M	1.5	6.0	10.0	18.0	20.0
LPM4020C-2R2M	2.2	5.0	8.0	27.0	34.0
LPM4020C-3R3M	3.3	4.5	6.0	36.0	43.0
LPM4020C-4R7M	4.7	4.0	5.5	52.0	63.0
LPM4020C-100M	10.0	2.8	4.0	110.0	125.0
LPM4020C-220M	22.0	1.7	2.8	256.0	280.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4030C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

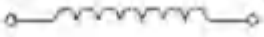
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ)
LPM4030C-R15M	0.15	26.0	24.0	1.8	1.9
LPM4030C-R30M	0.30	24.0	17.0	2.5	2.9
LPM4030C-R47M	0.47	21.2	14.2	3.4	3.9
LPM4030C-R68M	0.68	14.0	12.0	4.2	4.8
LPM4030C-1R0M	1.0	13.0	10.8	6.5	7.2
LPM4030C-1R5M	1.5	10.2	8.8	9.5	10.5
LPM4030C-2R2M	2.2	8.7	7.0	13.5	15.0
LPM4030C-3R3M	3.3	7.5	5.3	19.8	21.9
LPM4030C-4R7M	4.7	6.8	4.4	28.5	31.5
LPM4030C-5R6M	5.6	4.7	3.65	43.5	47.9
LPM4030C-6R2M	6.2	4.2	3.45	50.6	55.7
LPM4030C-100M	10.0	3.9	3.1	63.0	69.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM4040C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

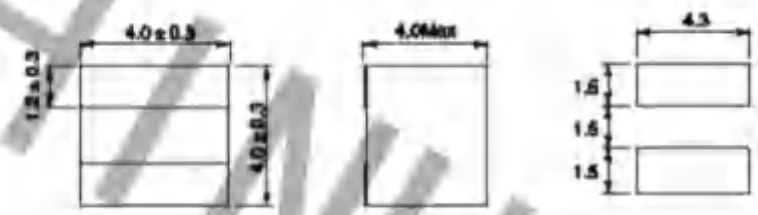
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ).
LPM4040C-R15M	0.15	30.2	21.0	1.5	1.8
LPM4040C-R30M	0.30	24.8	15.3	2.2	2.6
LPM4040C-R47M	0.47	20.8	12.2	2.8	3.2
LPM4040C-R68M	0.68	18.3	10.5	3.5	4.0
LPM4040C-1R0M	1.00	14.8	9.5	4.8	5.6
LPM4040C-1R5M	1.50	12.5	7.9	6.8	7.9
LPM4040C-2R2M	2.20	11.0	6.4	10.1	11.5
LPM4040C-3R3M	3.30	8.7	5.5	15.0	16.6
LPM4040C-4R7M	4.70	7.1	4.4	22.2	24.5
LPM4040C-6R8M	6.80	5.8	4.0	31.5	34.7
LPM4040C-100M	10.00	5.0	2.8	45.8	50.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM5020C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 5.2mm x 5.4mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ)
LPM5020C-R15M	0.15	28.4	27.0	1.8	2.1
LPM5020C-R33M	0.33	24.4	18.8	2.7	3.2
LPM5020C-R47M	0.47	22.1	15.7	3.7	4.3
LPM5020C-R68M	0.68	17.6	14.0	5.3	6.1
LPM5020C-1R0M	1.0	15.0	11.4	7.5	8.7
LPM5020C-1R5M	1.5	12.8	8.9	11.4	13.2
LPM5020C-2R2M	2.2	10.7	7.6	16.3	18.8
LPM5020C-3R3M	3.3	9.4	6.5	23.4	27.0
LPM5020C-4R7M	4.7	7.8	5.8	36.0	41.5
LPM5020C-6R8M	6.8	4.9	4.5	55.0	63.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM5030C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 5.2mm x 5.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

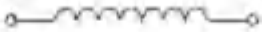
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ)
LPM5030C-R15M	0.15	32.0	30.0	1.3	1.6
LPM5030C-R33M	0.33	30.6	24.5	1.8	2.2
LPM5030C-R47M	0.47	25.0	20.5	2.5	3.0
LPM5030C-R68M	0.68	21.2	17.5	3.3	4.0
LPM5030C-1R0M	1.0	17.8	14.0	4.8	5.8
LPM5030C-1R5M	1.5	15.4	12.2	6.8	7.9
LPM5030C-2R2M	2.2	12.9	9.4	9.2	10.6
LPM5030C-3R3M	3.3	10.0	8.4	13.3	14.9
LPM5030C-4R7M	4.7	8.5	6.7	21.9	24.5
LPM5030C-6R8M	6.8	7.3	5.5	28.5	32.1
LPM5030C-100M	10.0	5.7	4.5	43.0	48.4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHINHOM

SMD MOLDED POWER INDUCTORS

LPM6030C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 6.0mm x 6.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

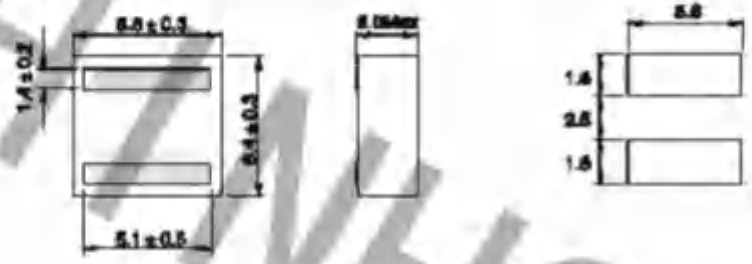
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

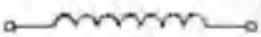
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM6030C-R15M	0.15	55.0	43.0	1.0	1.2
LPM6030C-R22M	0.22	52.0	39.0	1.2	1.5
LPM6030C-R36M	0.36	29.0	26.0	2.0	2.4
LPM6030C-R47M	0.47	26.0	25.5	2.2	2.7
LPM6030C-R68M	0.68	22.5	22.0	2.9	3.5
LPM6030C-1R0M	1.0	18.1	17.7	4.2	4.8
LPM6030C-1R5M	1.5	15.0	14.5	6.2	7.3
LPM6030C-2R2M	2.2	12.0	12.2	8.7	10.3
LPM6030C-3R3M	3.3	10.5	10.4	13.1	15.4
LPM6030C-4R7M	4.7	10.0	8.6	17.5	21.0
LPM6030C-6R8M	6.8	8.2	7.5	25.1	29.5
LPM6030C-100M	10.0	7.0	6.2	36.0	44.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes:

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms): DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat): DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHIHLON

SMD MOLDED POWER INDUCTORS

LPM6060C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 6.0mm x 6.4mm x 6.0max
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(uH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM6060C-R22M	0.22	28.0	36.0	1.1	1.3
LPM6060C-R47M	0.47	25.0	29.5	1.5	1.8
LPM6060C-R68M	0.68	22.7	26.5	2.0	2.5
LPM6060C-1R0M	1.0	22.0	23.0	2.5	2.9
LPM6060C-1R5M	1.5	20.2	18.3	3.3	3.8
LPM6060C-2R2M	2.2	17.2	16.0	4.3	4.8
LPM6060C-3R3M	3.3	16.6	13.4	5.9	6.5
LPM6060C-4R7M	4.7	13.5	10.2	9.1	10.1
LPM6060C-6R8M	6.8	11.5	8.9	12.7	14.0
LPM6060C-100M	10.0	9.1	7.3	18.5	20.4
LPM6060C-150M	15.0	7.4	5.8	28.2	31.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency: 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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SMD MOLDED POWER INDUCTORS

LPM6030B SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 6.6mm x 6.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

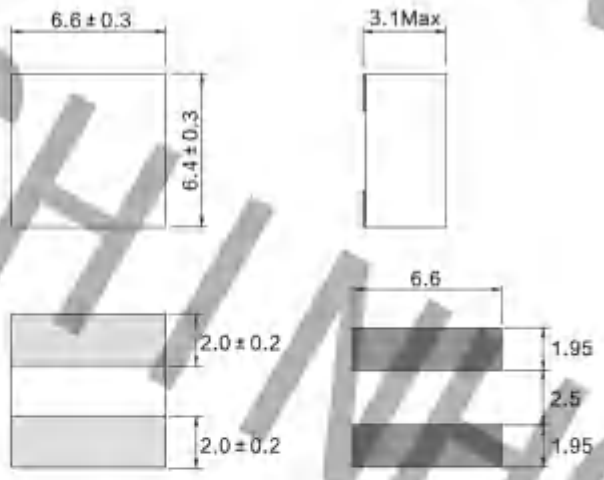
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).	SRF Typ. (MHz)
LPM6060B-R18M	0.18	32	39	1.59	1.75	141
LPM6030B-R33M	0.33	25	30	2.3	2.53	89
LPM6030B-R56M	0.56	22	29	3.01	3.31	61
LPM6030B-1R0M	1	18	23	5.62	6.18	50
LPM6030B-1R2M	1.2	16	22	6.82	7.5	43
LPM6030B-1R8M	1.8	14	18.2	9.57	10.52	34
LPM6030B-2R2M	2.2	10	15.9	12.7	13.97	30
LPM6030B-3R3M	3.3	8	12.2	19.92	20.81	26

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

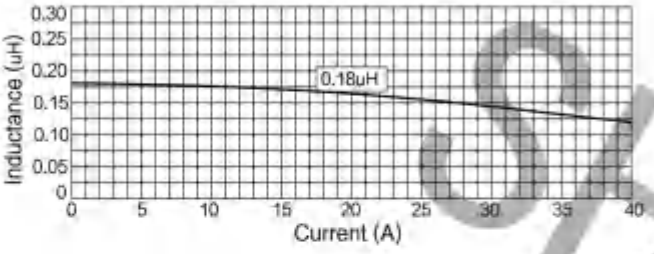


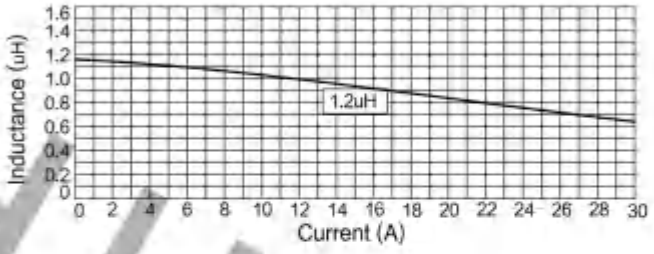
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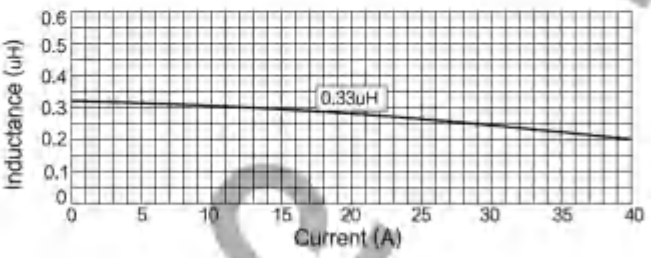
- Test Frequency : 1.0MHz / 0.1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A)that will cause an approximate Δ T of 40℃.
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range: -40℃ to +165℃(ambient + temp rise)
- Storage Temperature Range: -55℃ to +165℃
- Tape and reel packaging: -55℃ to +80℃

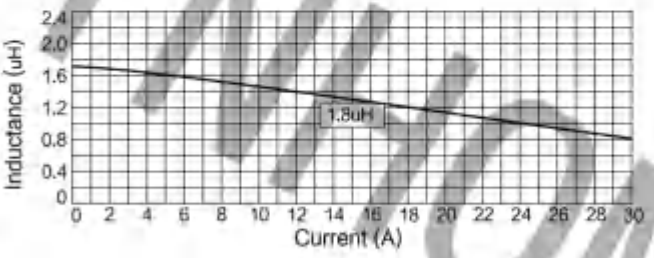
SHINHOM

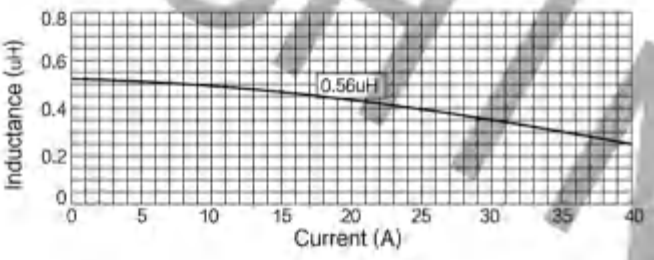
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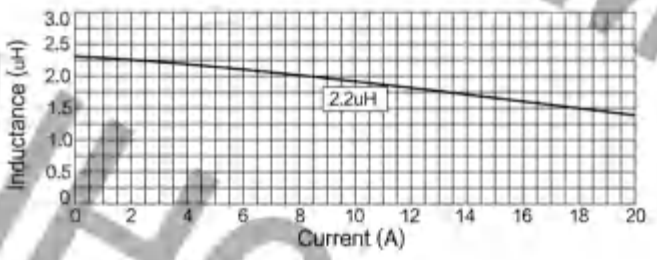


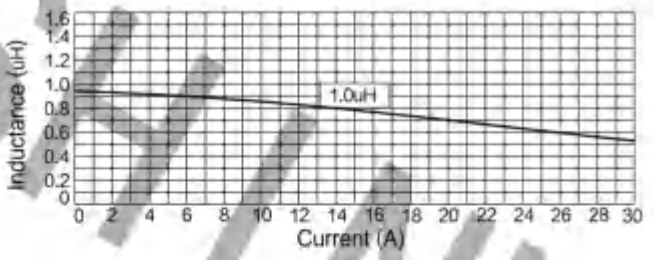


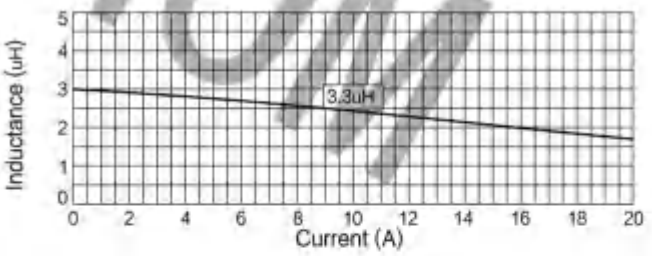












SHINHOM

SMD MOLDED POWER INDUCTORS

LPM6060B SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl iron powder
- Low profile: 6.6mm x 6.4mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

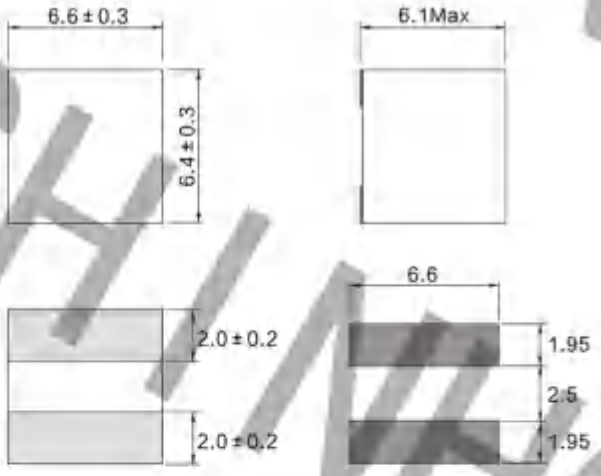
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).	SRF Typ. (MHz)
LPM6060B-4R7M	4.7	11	10.5	13.1	14.4	21
LPM6060B-5R6M	5.6	10	9.9	14.46	15.9	20
LPM6060B-6R8M	6.8	9	9.2	18.9	20.8	18
LPM6060B-8R2M	8.2	8	8.4	24	26.4	16
LPM6060B-100M	10	7	7.6	27	29.82	14
LPM6060B-150M	15	6	5.8	39.77	43.75	11
LPM6060B-220M	22	5	5.6	55.12	60.63	9
LPM6060B-330M	33	3.6	3.7	95.68	105	7

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

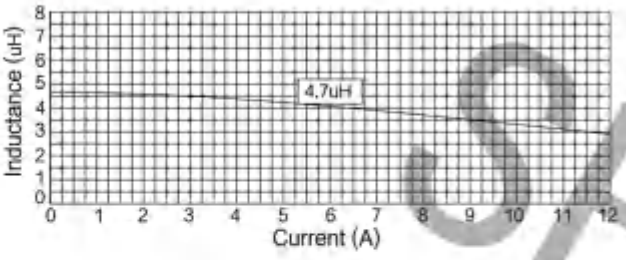


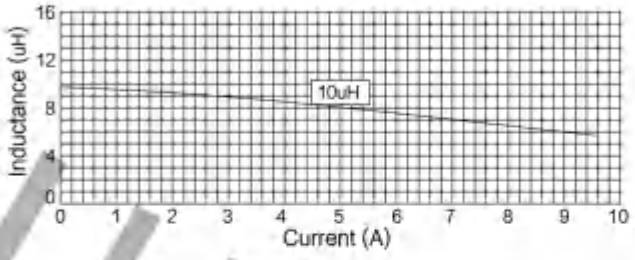
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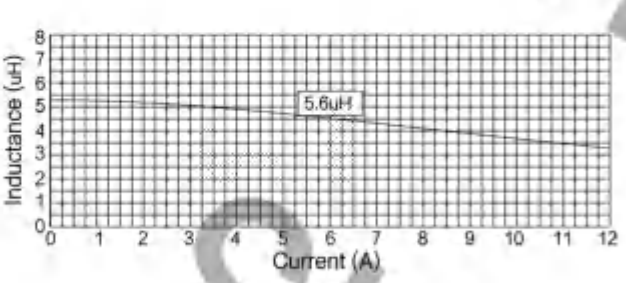
- Test Frequency : 1.0MHz / 0.1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A)that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range: −40℃ to +165℃(ambient + temp rise)
- Storage Temperature Range: −55℃ to +165℃
- Tape and reel packaging: −55℃ to +80℃

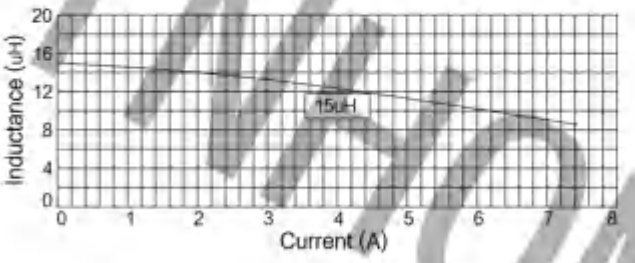
SHINHOM

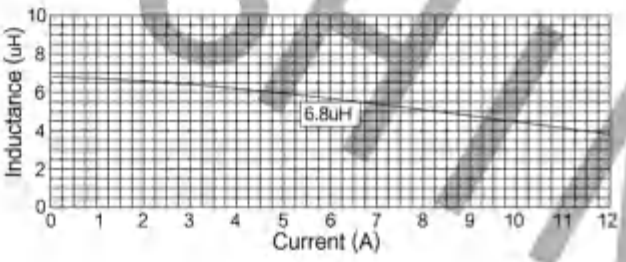
L VS CURRENT:

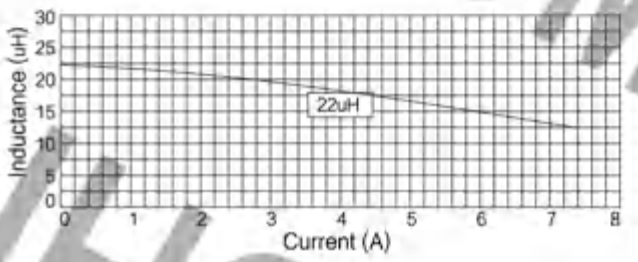


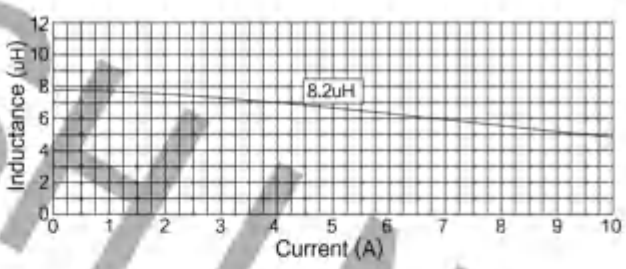


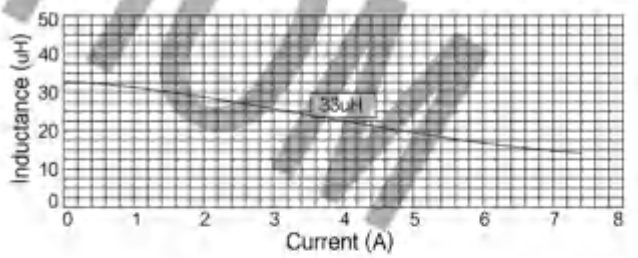












SHINHOM

SMD MOLDED POWER INDUCTORS

LPM10100C SERIES



FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 11.3mm x 10mm x 10mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

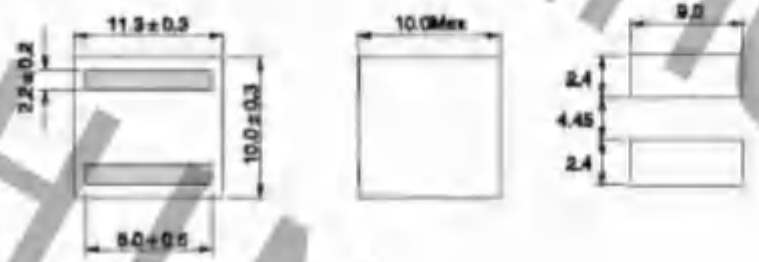
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM10100C-1R0M	1.0	43.5	55.0	1.00	1.10
LPM10100C-1R5M	1.5	40.5	35.6	1.60	1.76
LPM10100C-2R2M	2.2	32.0	34.0	2.55	2.80
LPM10100C-3R3M	3.3	25.0	27.4	3.70	4.10
LPM10100C-4R7M	4.7	24.0	25.4	5.20	5.70
LPM10100C-6R8M	6.8	18.5	21.9	8.1	8.9
LPM10100C-100M	10.0	15.5	17.5	13.4	14.8
LPM10100C-150M	15.0	13.8	15.5	18.2	18.6

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25℃ ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40℃
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55℃ to +125℃
- The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SHIHHOM



SMD MOLDED POWER INDUCTORS

LPM 1707 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.)
- Bulk packaging Available for Smaller Quantities

COMMON APPLCATIONS:

- Excellent for power line DC-DC conversion
- Applications usedin power switching
- Personal computers and other handheldelectronic equipment.

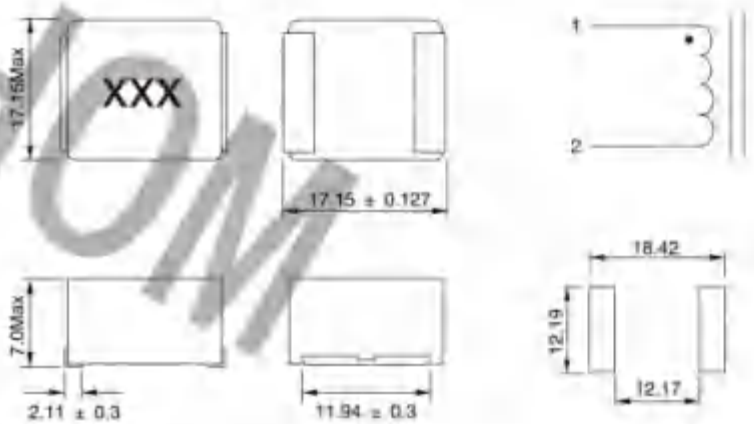
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ (mΩ)	DCR Max. (mΩ).
LPM1707-R22M	0.22	80	129	0.63	0.75
LPM1707-R33M	0.33	65	126	0.71	0.82
LPM1707-R47M	0.47	62	123	0.90	1.03
LPM1707-R56M	0.56	56	68	0.91	1.05
LPM1707-R82M	0.82	50	73	1.17	1.29
LPM1707-1R0M	1.0	48	73	1.28	1.36
LPM1707-1R5M	1.5	42	65	1.78	1.88
LPM1707-1R8M	1.8	38	65	1.96	2.10
LPM1707-2R2M	2.2	35	62	2.40	2.53
LPM1707-3R3M	3.3	28	54	3.66	3.88
LPM1707-4R7M	4.7	25	41	4.84	5.11
LPM1707-5R6M	5.6	21	40	6.68	7.05
LPM1707-6R8M	6.8	19	32	8.37	8.83
LPM1707-8R2M	8.2	18	25	10.10	10.66
LPM1707-100M	10.0	16.5	25	11.6	12.0
LPM1707-150M	15.0	12.5	25	18.6	19.9
LPM1707-220M	22.0	11	23	25.1	26.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25℃
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -55℃ ~ +125℃.

Dimensions(mm)



Note:All specifications subject to change without notice.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS2512 SERIES



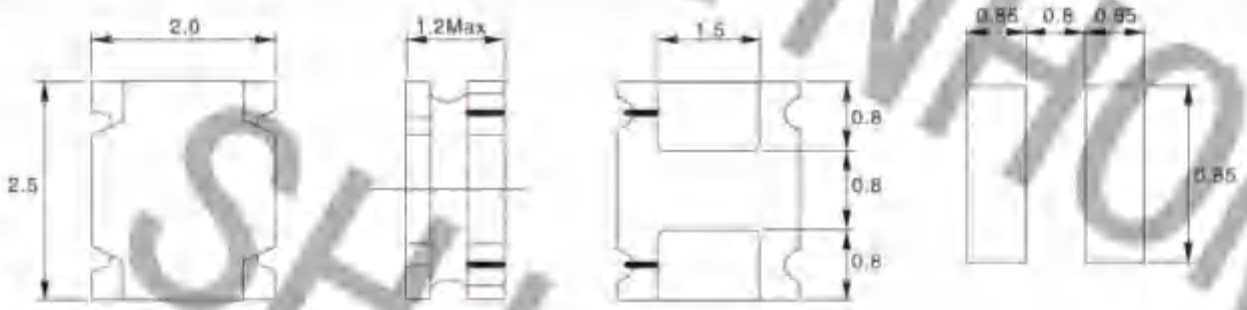
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 2.0x2.5mm, Height: 1.2mm max
- Generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC profection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerance %	Test frequency KHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS2512-R47N	0.47	± 30	100	0.05	0.042	3.6	4.03	2.27
LPS2512-R68N	0.68	± 30	100	0.088	0.073	3.06	3.43	1.73
LPS2512-1R0N	1.0	± 30	100	0.102	0.085	2.68	3.00	1.58
LPS2512-1R2N	1.2	± 30	100	0.119	0.099	2.38	2.67	1.46
LPS2512-1R5M	1.5	± 20	100	0.136	0.113	2.24	2.51	1.40
LPS2512-2R2M	2.2	± 20	100	0.198	0.165	1.85	2.07	1.15
LPS2512-2R7M	2.7	± 20	100	0.222	0.285	1.71	1.92	1.09
LPS2512-3R3M	3.3	± 20	100	0.240	0.200	1.61	1.80	1.04
LPS2512-3R6M	3.6	± 20	100	0.322	0.268	1.48	1.66	0.90
LPS2512-4R3M	4.3	± 20	100	0.348	0.290	1.37	1.53	0.87
LPS2512-4R7M	4.7	± 20	100	0.378	0.315	1.18	1.32	0.84
LPS2512-5R1M	5.1	± 20	100	0.378	0.315	1.18	1.32	0.84
LPS2512-5R6M	5.6	± 20	100	0.401	0.334	1.13	1.26	0.81
LPS2512-6R2M	6.2	± 20	100	0.500	0.417	1.03	1.16	0.73
LPS2512-6R8M	6.8	± 20	100	0.536	0.447	0.98	1.09	0.69
LPS2512-7R5M	7.5	± 20	100	0.584	0.470	0.97	1.09	0.68
LPS2512-8R2M	8.2	± 20	100	0.607	0.506	0.96	1.10	0.65
LPS2512-9R1M	9.1	± 20	100	0.667	0.556	0.95	1.06	0.62
LPS2512-100M	10	± 20	100	0.690	0.575	0.88	0.97	0.62
LPS2512-120M	12	± 20	100	0.992	0.827	0.78	0.87	0.51
LPS2512-150M	15	± 20	100	1.469	1.224	0.68	0.76	0.42
LPS2512-220M	22	± 20	100	1.824	1.520	0.53	0.59	0.38

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3010 SERIES



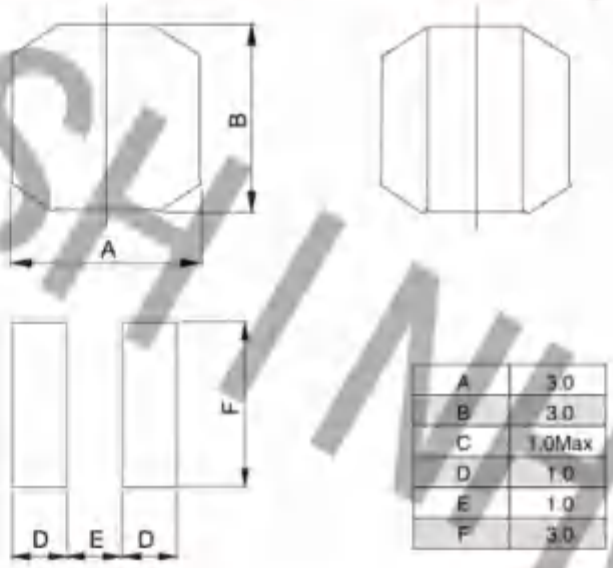
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	3.0
B	3.0
C	1.0Max
D	1.0
E	1.0
F	3.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3010-1R0N	1.0	± 30	1.0	0.072	0.060	1.6	1.8	2.1
LPS3010-1R5N	1.5	± 30	1.0	0.085	0.071	1.35	1.5	1.9
LPS3010-2R2M	2.2	± 20	1.0	0.116	0.097	1.20	1.3	1.7
LPS3010-3R3M	3.3	± 20	1.0	0.156	0.13	1.00	1.1	1.5
LPS3010-4R7M	4.7	± 20	1.0	0.204	0.17	0.81	0.9	1.3
LPS3010-6R8M	6.8	± 20	1.0	0.312	0.26	0.69	0.77	1.0
LPS3010-100M	10	± 20	1.0	0.468	0.39	0.56	0.63	0.9
LPS3010-150M	15	± 20	1.0	0.612	0.51	0.48	0.54	0.7
LPS3010-220M	22	± 20	1.0	0.900	0.75	0.38	0.43	0.6

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (Including self-temperature rise)

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3012 SERIES



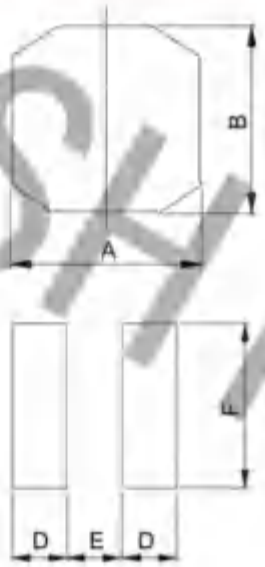
FEATURES:

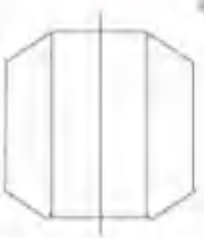
- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)







A	3.0
B	3.0
C	1.2Max
D	1.0
E	1.0
F	3.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3012-1R0N	1.0	± 30	1.0	0.068	0.056	1.90	2.15	2.0
LPS3012-1R5N	1.5	± 30	1.0	0.076	0.063	1.50	1.70	1.85
LPS3012-2R2M	2.2	± 20	1.0	0.096	0.080	1.35	1.50	1.7
LPS3012-3R3M	3.3	± 20	1.0	0.120	0.100	1.05	1.20	1.55
LPS3012-4R7M	4.7	± 20	1.0	0.156	0.130	0.95	1.05	1.3
LPS3012-6R8M	6.8	± 20	1.0	0.228	0.190	0.81	0.90	1.05
LPS3012-100M	10	± 20	1.0	0.336	0.280	0.64	0.76	0.89
LPS3012-150M	15	± 20	1.0	0.516	0.430	0.55	0.62	0.74
LPS3012-220M	22	± 20	1.0	0.756	0.630	0.44	0.49	0.61
LPS3012-330M	33	± 20	1.0	1.248	1.040	0.37	0.41	0.48
LPS3012-470M	47	± 20	1.0	1.500	1.250	0.31	0.35	0.44

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (Including self-temperature rise)

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS3015 SERIES



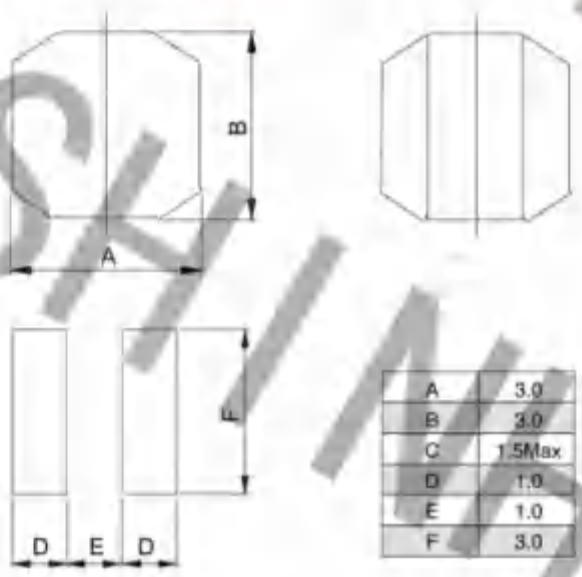
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 3x3mm, Height: 1.5mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	3.0
B	3.0
C	1.5Max
D	1.0
E	1.0
F	3.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency MHz	DCR Max (Ω)	DCR Typ (Ω)	Rated current*		
						Based on inductance change		Based on temperature rise
						Max	Typ	
LPS3015-1R0N	1.0	± 30	1.0	0.058	0.048	2.00	2.20	2.10
LPS3015-1R5N	1.5	± 30	1.0	0.075	0.062	1.50	1.70	1.85
LPS3015-2R2M	2.2	± 20	1.0	0.084	0.070	1.35	1.50	1.75
LPS3015-3R3M	3.3	± 20	1.0	0.112	0.093	1.15	1.30	1.50
LPS3015-4R7M	4.7	± 20	1.0	0.136	0.113	1.00	1.10	1.35
LPS3015-6R8M	6.8	± 20	1.0	0.216	0.180	0.92	1.00	1.05
LPS3015-100M	10	± 20	1.0	0.288	0.240	0.70	0.78	0.94
LPS3015-150M	15	± 20	1.0	0.456	0.380	0.58	0.65	0.75
LPS3015-220M	22	± 20	1.0	0.660	0.550	0.48	0.54	0.62
LPS3015-330M	33	± 20	1.0	0.984	0.820	0.39	0.43	0.51
LPS3015-470M	47	± 20	1.0	1.500	1.250	0.32	0.35	0.41

NOTES:

1. Rated current: Value obtained when current flows and the temperature has risen to 40℃ or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
2. Operating temperature range: -40 to +105℃ (Including self-temperature rise)

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4010 SERIES



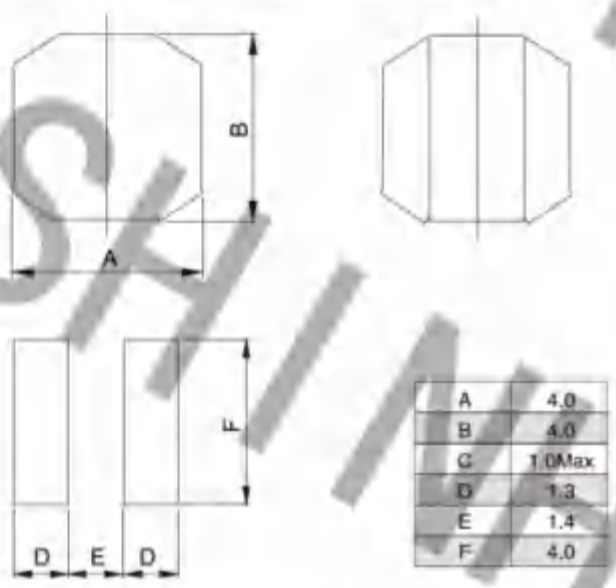
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.0mm max.
- Generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC protection
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.0Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4010-1R0N	1.0	± 30	100	116	0.10	1.80	1.05
LPS4010-2R2N	2.2	± 30	100	73	0.15	1.15	0.89
LPS4010-3R3M	3.3	± 20	100	58	0.18	1.10	0.82
LPS4010-4R7M	4.7	± 20	100	47	0.21	0.90	0.75
LPS4010-6R8M	6.8	± 20	100	38	0.30	0.74	0.62
LPS4010-100M	10	± 20	100	31	0.38	0.56	0.60
LPS4010-150M	15	± 20	100	24	0.51	0.47	0.51
LPS4010-220M	22	± 20	100	19	0.87	0.36	0.40
LPS4010-330M	33	± 20	100	15	1.54	0.28	0.30
LPS4010-470M	47	± 20	100	13	1.81	0.24	0.28

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4012 SERIES



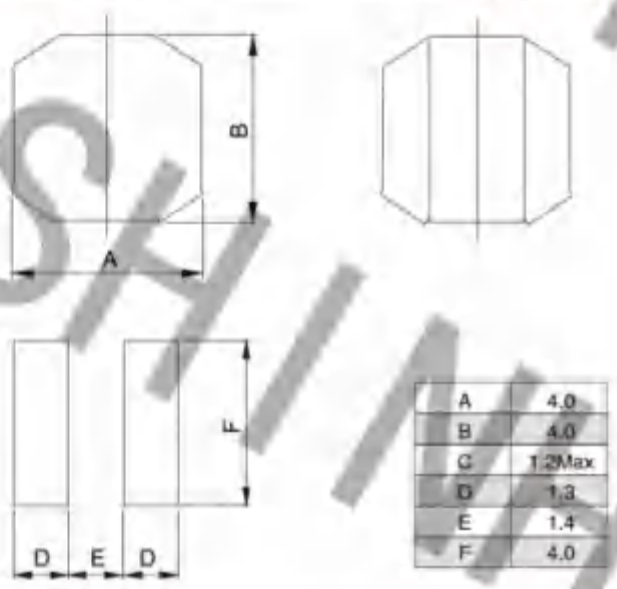
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.2Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4012-1R0N	1.0	± 30	100	131	0.06	2.5	1.5
LPS4012-2R2N	2.2	± 30	100	66	0.09	1.65	1.2
LPS4012-3R3M	3.3	± 20	100	50	0.13	1.2	0.98
LPS4012-4R7M	4.7	± 20	100	45	0.14	1.05	0.96
LPS4012-6R8M	6.8	± 20	100	35	0.18	0.9	0.84
LPS4012-100M	10	± 20	100	28	0.24	0.74	0.77
LPS4012-150M	15	± 20	100	23	0.40	0.56	0.60
LPS4012-220M	22	± 20	100	18	0.48	0.51	0.54
LPS4012-330M	33	± 20	100	15	0.91	0.4	0.42
LPS4012-470M	47	± 20	100	12	1.00	0.35	0.37

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4018 SERIES



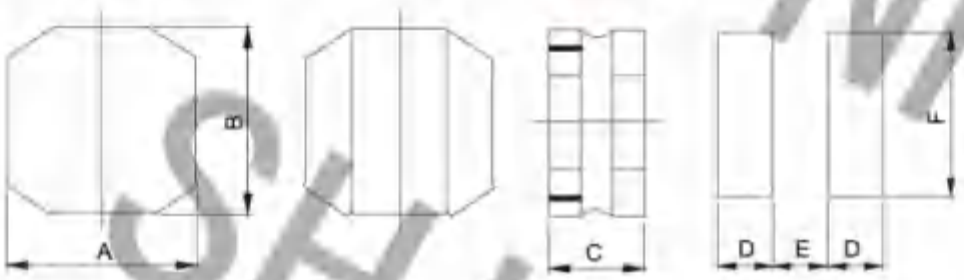
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 1.8mm max
- Generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	1.8Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4018-1R0N	1.0	± 30	100	80	0.03	4.0	1.83
LPS4018-2R2M	2.2	± 20	100	52	0.06	2.7	1.44
LPS4018-3R3M	3.3	± 20	100	44	0.07	2.0	1.23
LPS4018-4R7M	4.7	± 20	100	34	0.09	1.7	1.2
LPS4018-6R8M	6.8	± 20	100	29	0.11	1.45	1.06
LPS4018-100M	10	± 20	100	24	0.18	1.2	0.84
LPS4018-150M	15	± 20	100	19	0.25	0.94	0.65
LPS4018-220M	22	± 20	100	16	0.36	0.8	0.59
LPS4018-330M	33	± 20	100	12	0.53	0.65	0.49
LPS4018-470M	47	± 20	100	10	0.65	0.57	0.42
LPS4018-680M	68	± 20	100	8.3	1.00	0.47	0.32
LPS4018-101M	100	± 20	100	6.5	1.50	0.4	0.27
LPS4018-151M	150	± 20	100	5.5	2.50	0.31	0.22
LPS4018-221M	220	± 20	100	4.0	4.00	0.27	0.17

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4020 SERIES



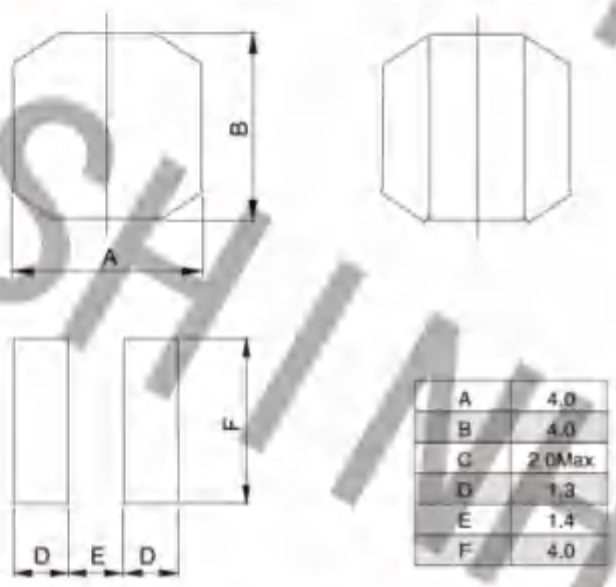
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	2.0Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4020-1R0N	1.0	± 30	100	98	0.020	4.85	2.60
LPS4020-1R2N	1.2	± 30	100	86	0.020	4.58	2.50
LPS4020-1R5N	1.5	± 30	100	86	0.030	3.85	2.15
LPS4020-2R2N	2.2	± 30	100	49	0.040	3.40	1.85
LPS4020-3R3M	3.3	± 20	100	44	0.070	3.20	1.40
LPS4020-3R6M	3.6	± 20	100	49	0.055	2.80	1.54
LPS4020-4R7M	4.7	± 20	100	42	0.075	2.35	1.34
LPS4020-5R1M	5.1	± 20	100	42	0.085	2.30	1.27
LPS4020-5R6M	5.6	± 20	100	30	0.090	2.20	1.22
LPS4020-6R2M	6.2	± 20	100	36	0.115	2.15	1.08
LPS4020-6R8M	6.8	± 20	100	33	0.125	2.20	1.04

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4020-7R5M	7.5	± 20	100	30	0.115	1.85	1.08
LPS4020-8R2M	8.2	± 20	100	27	0.125	1.75	1.04
LPS4020-100M	10	± 20	100	26	0.165	1.60	0.90
LPS4020-120M	12	± 20	100	26	0.175	1.50	0.88
LPS4020-150M	15	± 20	100	24	0.230	1.35	0.77
LPS4020-220M	22	± 20	100	15	0.350	1.05	0.62
LPS4020-270M	27	± 20	100	14	0.545	1.02	0.50
LPS4020-330M	33	± 20	100	11	0.550	0.85	0.49
LPS4020-390M	39	± 20	100	11	0.650	0.82	0.46
LPS4020-430M	43	± 20	100	10	0.660	0.77	0.45
LPS4020-470M	47	± 20	100	10	0.710	0.74	0.44
LPS4020-510M	51	± 20	100	10	0.750	0.70	0.42
LPS4020-560M	56	± 20	100	10	0.800	0.66	0.41
LPS4020-620M	62	± 20	100	9.6	0.900	0.65	0.39
LPS4020-680M	68	± 20	100	7.7	1.06	0.61	0.36
LPS4020-750M	75	± 20	100	7.7	1.12	0.60	0.35
LPS4020-820M	82	± 20	100	7.2	1.17	0.56	0.34
LPS4020-101M	100	± 20	100	6.3	1.35	0.52	0.31

Notes:

1. All test data is referenced to 20°C ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40°C) form 20°C ambient.

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SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS4030 SERIES



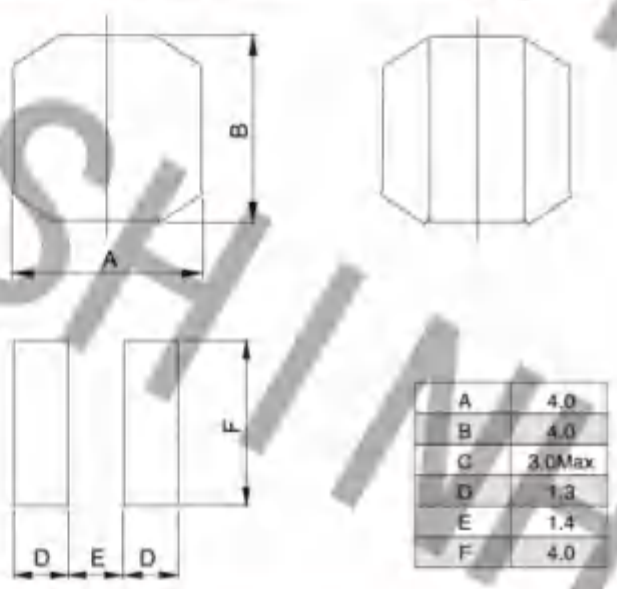
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 4x4mm, Height: 3.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	4.0
B	4.0
C	3.0Max
D	1.3
E	1.4
F	4.0

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (μH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-R91N	0.91	± 30	100	100	0.022	6.25	3.15
LPS4030-1R2N	1.2	± 30	100	80	0.025	5.80	2.96
LPS4030-1R5N	1.5	± 30	100	62	0.030	4.84	2.92
LPS4030-1R8N	1.8	± 30	100	60	0.030	5.4	2.92
LPS4030-2R2N	2.2	± 30	100	52	0.035	4.9	2.57
LPS4030-3R3M	3.3	± 20	100	38	0.040	3.3	2.40
LPS4030-4R3M	4.3	± 20	100	37	0.055	2.95	2.1
LPS4030-4R7M	4.7	± 20	100	31	0.060	2.90	2.0
LPS4030-5R6M	5.6	± 20	100	30	0.065	2.60	1.95
LPS4030-6R2M	6.2	± 20	100	29	0.070	2.50	1.85
LPS4030-6R8M	6.8	± 20	100	24	0.090	2.30	1.70
LPS4030-7R5M	7.5	± 20	100	26	0.092	2.20	1.65

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS4030-8R2M	8.2	± 20	100	26	0.095	2.10	1.60
LPS4030-9R1M	9.1	± 20	100	23	0.095	2.00	1.55
LPS4030-100M	10	± 20	100	21	0.100	1.95	1.50
LPS4030-120M	12	± 20	100	18	0.135	1.70	1.30
LPS4030-150M	15	± 20	100	16	0.190	1.65	1.11
LPS4030-180M	18	± 20	100	10	0.200	1.4	1.10
LPS4030-220M	22	± 20	100	10	0.225	1.3	1.00
LPS4030-330M	33	± 20	100	10	0.330	1.1	0.84
LPS4030-360M	36	± 20	100	9.9	0.335	1.05	0.83
LPS4030-390M	39	± 20	100	10	0.435	1.03	0.73
LPS4030-430M	43	± 20	100	9.2	0.440	1.00	0.73
LPS4030-470M	47	± 20	100	8.4	0.445	0.95	0.72
LPS4030-510M	51	± 20	100	8.4	0.470	0.90	0.70
LPS4030-560M	56	± 20	100	8.4	0.555	0.85	0.65
LPS4030-620M	62	± 20	100	7	0.829	0.80	0.53
LPS4030-680M	68	± 20	100	7	0.868	0.75	0.52
LPS4030-750M	75	± 20	100	6.3	1.02	0.70	0.48
LPS4030-820M	82	± 20	100	5.6	1.06	0.66	0.47
LPS4030-910M	91	± 20	100	5.6	1.10	0.65	0.46
LPS4030-101M	100	± 20	100	5.6	1.15	0.60	0.45
LPS4030-121M	120	± 20	100	5.4	1.35	0.55	0.42

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

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SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS5020 SERIES



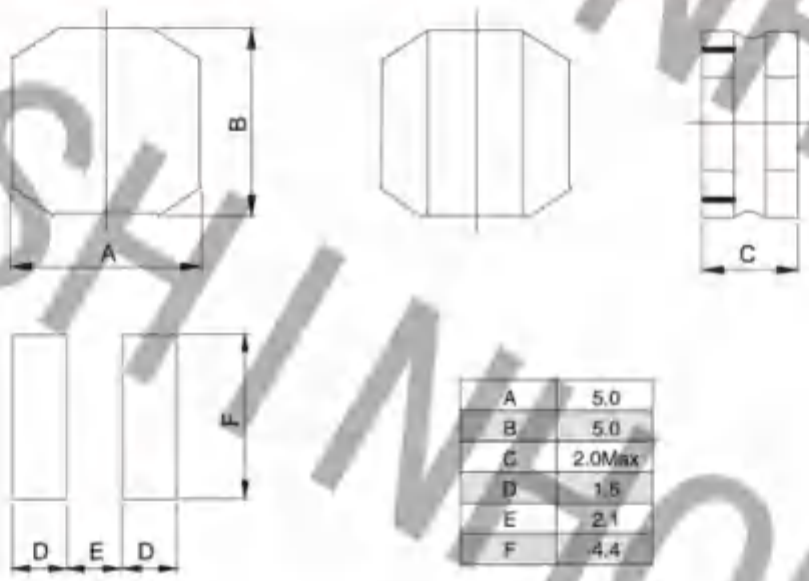
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc.

SHAPE AND DIMENSIONS Dimensions(mm)



A	5.0
B	5.0
C	2.0Max
D	1.5
E	2.1
F	4.4

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS5020-1R0N	1.0	± 30	100	97	0.018	4.33	3.7
LPS5020-1R5N	1.5	± 30	100	80	0.026	3.85	3.2
LPS5020-2R2N	2.2	± 30	100	61	0.035	3.85	2.9
LPS5020-3R3N	3.3	± 30	100	46	0.044	3.25	2.4
LPS5020-4R7N	4.7	± 30	100	33	0.059	2.40	2.05
LPS5020-6R8M	6.8	± 20	100	30	0.067	1.80	1.7
LPS5020-100M	10	± 20	100	24	0.110	1.79	1.50
LPS5020-150M	15	± 20	100	20	0.165	1.44	1.25
LPS5020-220M	22	± 20	100	16	0.235	1.18	1.05
LPS5020-330M	33	± 20	100	13	0.370	1.97	0.83

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS5040 SERIES



FEATURES:

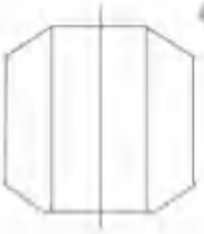
- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 5x5mm, Height: 4.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc.

SHAPE AND DIMENSIONS Dimensions(mm)







A	5.0
B	5.0
C	4.0Max
D	1.5
E	2.1
F	4.4

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS5040-1R5N	1.5	± 30	100	60	0.013	7.3	4.45
LPS5040-2R2N	2.2	± 30	100	42	0.017	6.5	3.95
LPS5040-3R3N	3.3	± 30	100	32	0.025	5.1	3.4
LPS5040-4R7N	4.7	± 30	100	28	0.029	4.4	3.1
LPS5040-6R8M	6.8	± 20	100	21	0.043	3.8	2.4
LPS5040-100M	10	± 20	100	18	0.055	2.9	2.1
LPS5040-150M	15	± 20	100	13	0.089	2.3	1.6
LPS5040-220M	22	± 20	100	9	0.126	1.9	1.4
LPS5040-330M	33	± 20	100	7	0.192	1.6	1.2
LPS5040-470M	47	± 20	100	6	0.263	1.3	0.94

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6012 SERIES



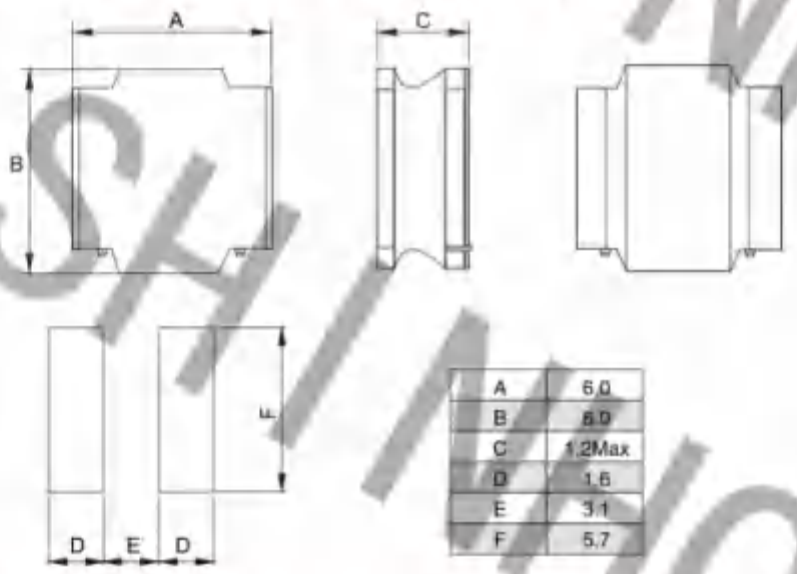
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 1.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	1.2Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±20%	Rated current*	
						Saturation current	Based on temperature rise
LPS6012-2R5N	2.5	± 30	100	45	0.09	2.1	1.73
LPS6012-4R0N	4.0	± 30	100	39	0.105	1.8	1.57
LPS6012-5R3M	5.3	± 20	100	34	0.125	1.5	1.4
LPS6012-6R8M	6.8	± 20	100	30	0.165	1.3	1.18
LPS6012-100M	10	± 20	100	22	0.235	1.0	1.0
LPS6012-150M	15	± 20	100	18	0.33	0.8	0.79
LPS6012-220M	22	± 20	100	12	0.53	0.76	0.63
LPS6012-330M	33	± 20	100	8	0.7	0.59	0.53
LPS6012-470M	47	± 20	100	6	1.05	0.52	0.46
LPS6012-680M	68	± 20	100	3	1.35	0.44	0.41
LPS6012-101M	100	± 20	100	1	2.18	0.35	0.32

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6020 SERIES



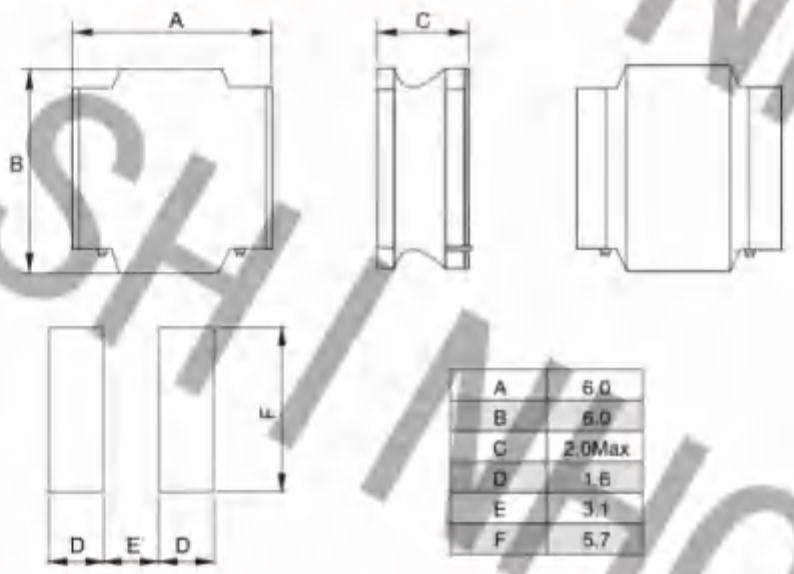
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 2.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	2.0Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6020-0R8N	0.8	± 30	100	110	0.02	5.5	3.8
LPS6020-1R5N	1.5	± 30	100	93	0.026	4.0	3.2
LPS6020-2R2N	2.2	± 30	100	73	0.034	3.2	2.7
LPS6020-3R3N	3.3	± 30	100	55	0.04	2.8	2.6
LPS6020-4R7N	4.7	± 30	100	43	0.058	2.4	2.0
LPS6020-6R8N	6.8	± 30	100	30	0.085	2.0	1.8
LPS6020-100M	10	± 20	100	18	0.125	1.7	1.4
LPS6020-220M	22	± 20	100	11	0.290	1.05	0.95

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM SHINHOM SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6028 SERIES



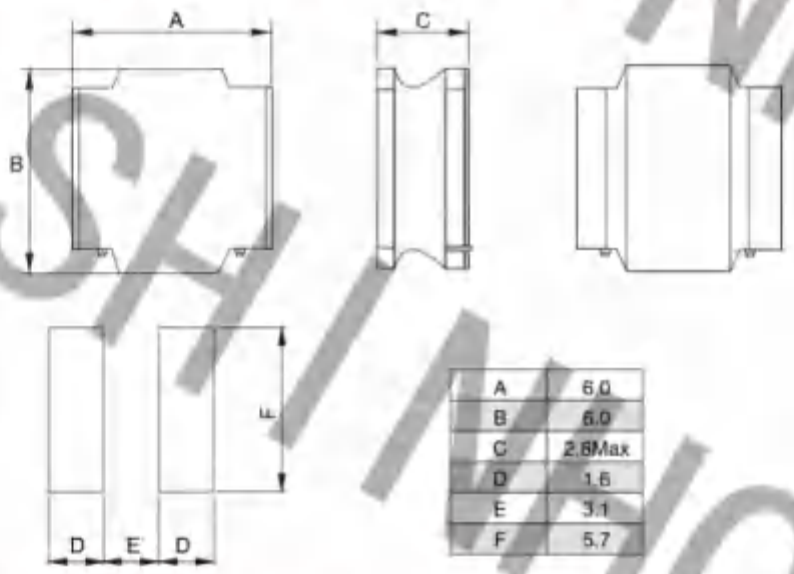
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 2.8mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	2.8Max
D	1.6
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6028-1R5N	1.5	± 30	100	65	0.013	6.00	4.58
LPS6028-2R2N	2.2	± 30	100	56	0.015	5.10	4.09
LPS6028-2R7N	2.7	± 30	100	48	0.020	3.80	3.75
LPS6028-3R3N	3.3	± 30	100	41	0.025	3.63	3.48
LPS6028-4R7N	4.7	± 30	100	35	0.030	3.00	3.06
LPS6028-5R1N	5.1	± 30	100	33	0.035	3.55	2.89
LPS6028-6R2M	6.2	± 20	100	30	0.040	3.05	2.58
LPS6028-6R8M	6.8	± 20	100	27	0.047	2.65	2.40
LPS6028-8R2M	8.2	± 20	100	24	0.055	2.60	2.25
LPS6028-9R1M	9.1	± 20	100	24	0.060	2.55	2.15
LPS6028-100M	10	± 20	100	23	0.072	2.04	1.95
LPS6028-120M	15	± 20	100	18	0.080	1.80	1.85

SHINHOM ELECTRONICS

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6028-150M	15	± 20	100	18	0.125	1.75	1.45
LPS6028-180M	18	± 20	100	15	0.125	1.52	1.45
LPS6028-220M	22	± 20	100	14	0.140	1.60	1.40
LPS6028-270M	27	± 20	100	13	0.155	1.50	1.32
LPS6028-330M	33	± 20	100	12	0.185	1.35	1.22
LPS6028-360M	36	± 20	100	11	0.215	1.25	1.13
LPS6028-390M	39	± 20	100	11	0.225	1.25	1.10
LPS6028-430M	43	± 20	100	11	0.235	1.20	1.07
LPS6028-470M	47	± 20	100	9.5	0.245	1.15	1.06
LPS6028-510M	51	± 20	100	9.5	0.265	1.05	1.01
LPS6028-620M	62	± 20	100	7.7	0.345	0.95	0.89
LPS6028-680M	68	± 20	100	7.7	0.360	0.95	0.86
LPS6028-750M	75	± 20	100	7.7	0.410	0.90	0.81
LPS6028-820M	82	± 20	100	7.7	0.445	0.90	0.78
LPS6028-910M	91	± 20	100	7.7	0.505	0.80	0.73
LPS6028-101M	100	± 20	100	7.1	0.545	0.75	0.70

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM SHINHOM SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS6045 SERIES



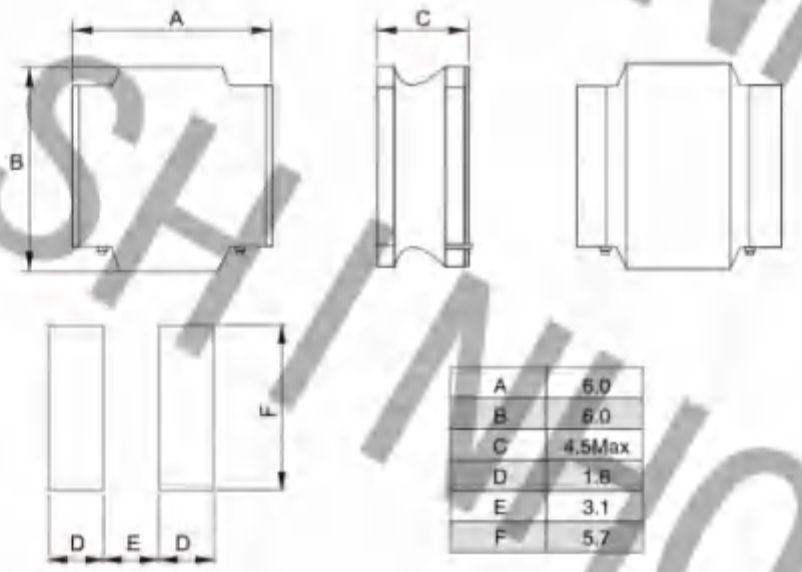
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 6x6mm, Height: 4.5mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



A	6.0
B	6.0
C	4.5Max
D	1.8
E	3.1
F	5.7

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS6045-R82N	0.82	± 30	100	140	0.008	10.35	5.90
LPS6045-1R0N	1.0	± 30	100	100	0.010	9.85	5.14
LPS6045-1R2N	1.2	± 30	100	100	0.011	8.35	5.40
LPS6045-1R5N	1.5	± 30	100	65	0.012	8.80	4.95
LPS6045-1R8N	1.8	± 30	100	74	0.012	7.60	4.95
LPS6045-2R2N	2.2	± 30	100	52	0.014	6.75	4.60
LPS6045-2R7N	2.7	± 30	100	38	0.015	5.75	4.30
LPS6045-3R6N	3.6	± 30	100	28	0.021	5.25	3.70
LPS6045-4R3M	4.3	± 20	100	23	0.023	4.45	3.50
LPS6045-4R7M	4.7	± 20	100	24	0.026	4.97	3.30

SHINHOM ELECTRONICS

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current[4]	
						Saturation current	Based on temperature rise
LPS6045-5R1M	5.1	± 20	100	23	0.026	4.40	3.30
LPS6045-5R6M	5.6	± 20	100	23	0.029	4.15	3.15
LPS6045-6R2M	6.2	± 20	100	26	0.031	4.43	3.00
LPS6045-6R8M	6.8	± 20	100	20	0.031	3.90	3.00
LPS6045-7R5M	7.5	± 20	100	18	0.034	3.50	2.90
LPS6045-8R2M	8.2	± 20	100	21	0.043	3.90	2.60
LPS6045-9R1M	9.1	± 20	100	17	0.043	3.35	2.60
LPS6045-100M	10	± 20	100	15	0.048	3.20	2.45
LPS6045-120M	12	± 20	100	13	0.058	2.80	2.20
LPS6045-150M	15	± 20	100	12	0.068	2.50	2.05
LPS6045-180M	18	± 20	100	10	0.081	2.20	1.85
LPS6045-220M	22	± 20	100	10	0.089	2.05	1.80
LPS6045-270M	27	± 20	100	9.2	0.102	1.90	1.65
LPS6045-300M	30	± 20	100	7.8	0.132	1.70	1.50
LPS6045-330M	33	± 20	100	7.6	0.137	1.65	1.45
LPS6045-390M	39	± 20	100	7.8	0.180	1.50	1.25
LPS6045-430M	43	± 20	100	7.7	0.200	1.63	1.20
LPS6045-470M	47	± 20	100	6.4	0.200	1.40	1.20
LPS6045-510M	51	± 20	100	6.4	0.207	1.35	1.15
LPS6045-560M	56	± 20	100	6.4	0.221	1.30	1.10
LPS6045-620M	62	± 20	100	6.4	0.235	1.25	1.10
LPS6045-680M	68	± 20	100	6.4	0.289	1.20	1.00
LPS6045-750M	75	± 20	100	5.0	0.305	1.15	0.95
LPS6045-820M	82	± 20	100	4.9	0.341	1.05	0.90
LPS6045-910M	91	± 20	100	4.9	0.359	1.00	0.85
LPS6045-101M	100	± 20	100	4.2	0.433	0.95	0.80
LPS6045-121M	120	± 20	100	4.2	0.484	0.85	0.77
LPS6045-151M	150	± 20	100	4.2	0.580	0.80	0.70
LPS6045-221M	220	± 20	100	3.5	0.834	0.70	0.59
LPS6045-331M	330	± 20	100	2.8	1.000	0.57	0.57

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS8030 SERIES



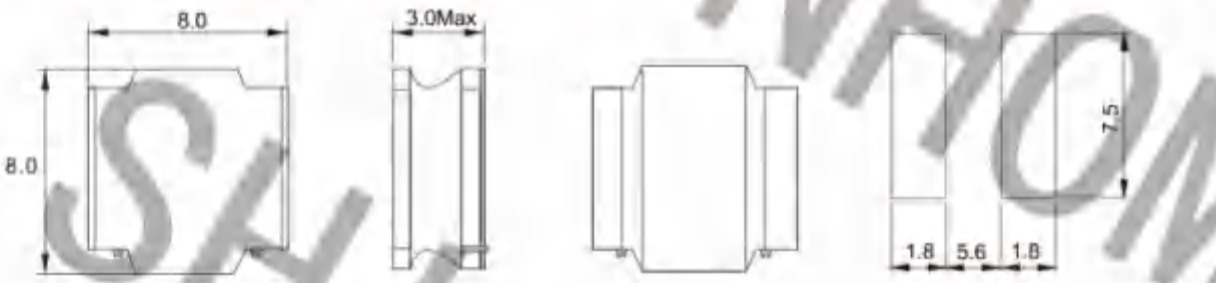
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 8x8mm, Height: 3.0mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8030-1R0N	1.0	± 30	100	120	0.009	7.80	6.20
LPS8030-1R5N	1.5	± 30	100	80	0.012	6.20	5.30
LPS8030-2R2N	2.2	± 30	100	60	0.015	4.90	4.80
LPS8030-3R3M	3.3	± 20	100	50	0.019	4.20	4.30
LPS8030-4R7M	4.7	± 20	100	40	0.022	3.60	4.00
LPS8030-6R8M	6.8	± 20	100	32	0.029	3.00	3.40
LPS8030-100M	10	± 20	100	27	0.033	2.40	3.00
LPS8030-150M	15	± 20	100	20	0.060	2.00	2.20
LPS8030-220M	22	± 20	100	16	0.070	1.75	1.90
LPS8030-330M	33	± 20	100	13	0.120	1.30	1.50
LPS8030-470M	47	± 20	100	11	0.170	1.10	1.30

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM SHINHOM

SMD Inductors(Coils)
For Power Line(Wound, Magnetic Shielded)
LPS8040 SERIES



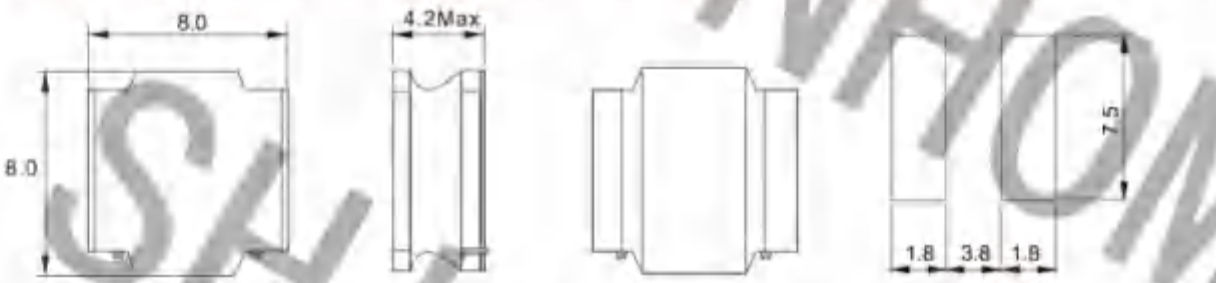
FEATURES:

- Magnetically shielded by magnetic powder molding
- Miniature size: Mount area: 8x8mm, Height: 4.2mm max.
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS:

- Cellular phones, DVCs, DSCs, PDAs, LCD displays, HDDs, etc

SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-R82N	0.82	± 30	100	94	0.008	13.80	6.30
LPS8040-1R0N	1.0	± 30	100	89	0.008	9.85	6.30
LPS8040-1R5N	1.5	± 30	100	67	0.010	8.15	5.65
LPS8040-2R0N	2.0	± 30	100	43	0.012	9.25	5.15
LPS8040-2R2N	2.2	± 30	100	41	0.012	7.10	5.15
LPS8040-3R0N	3.0	± 30	100	32	0.014	6.10	4.70
LPS8040-3R3N	3.3	± 30	100	27	0.017	6.50	4.40
LPS8040-3R9N	3.9	± 30	100	26	0.017	5.75	4.35
LPS8040-4R7N	4.7	± 30	100	24	0.019	5.90	4.10
LPS8040-5R1N	5.1	± 30	100	22	0.019	4.70	4.05
LPS8040-5R6N	5.6	± 30	100	24	0.021	6.00	3.85
LPS8040-6R2N	6.2	± 30	100	20	0.021	4.45	3.85
LPS8040-6R8M	6.8	± 20	100	20	0.024	4.55	3.60
LPS8040-8R2M	8.2	± 20	100	17	0.026	4.20	3.45
LPS8040-100M	10	± 20	100	15	0.029	3.60	3.30
LPS8040-150M	15	± 20	100	12	0.047	2.95	2.60
LPS8040-180M	18	± 20	100	11	0.053	2.70	2.40
LPS8040-220M	22	± 20	100	9.5	0.069	2.40	2.10
LPS8040-270M	27	± 20	100	9.2	0.078	2.15	2.00
LPS8040-330M	33	± 20	100	7.8	0.097	2.05	1.80

SHINHOM

Part No.	Inductance (uH)	Inductance tolerarance %	Test frequency KHz	SRF MHz	DCR (Ω) ±30%	Rated current*	
						Saturation current	Based on temperature rise
LPS8040-360M	36	± 20	100	7.8	0.102	2.00	1.75
LPS8040-390M	39	± 20	100	7.8	0.107	1.95	1.70
LPS8040-430M	43	± 20	100	7.8	0.113	1.90	1.65
LPS8040-470M	47	± 20	100	.4	0.136	1.75	1.55
LPS8040-510M	51	± 20	100	6.4	0.142	1.70	1.50
LPS8040-560M	56	± 20	100	6.4	0.148	1.55	1.45
LPS8040-620M	62	± 20	100	6.4	0.182	1.50	1.30
LPS8040-680M	68	± 20	100	4.9	0.196	1.45	1.25
LPS8040-750M	75	± 20	100	4.9	0.211	1.35	1.20
LPS8040-820M	82	± 20	100	5.9	0.225	1.30	1.15
LPS8040-910M	91	± 20	100	4.9	0.272	1.20	1.05
LPS8040-101M	100	± 20	100	4.2	0.290	1.15	1.00
LPS8040-121M	120	± 20	100	3.5	0.334	1.05	0.95
LPS8040-221M	220	± 20	100	3.5	0.599	0.85	0.80
LPS8040-331M	330	± 20	100	2.8	0.889	0.68	0.64

Notes:

1. All test data is referenced to 20℃ ambient.
2. Rated current: Isat or Irms, whichever is smaller.
3. Isat: DC current at which the inductance drops approximate 30% form its value without current.
4. Irms: DC current that causes the temperature rise (△T=40℃) form 20℃ ambient.

SHINHOM SHINHOM SHINHOM

Fixed Inductors (Voltage Step-up Coils)

LPS4520 SERIES



High inductance Voltage Step-up coil chip series for piezoelectric buzzers and DC-DCcircuitry of EL panels

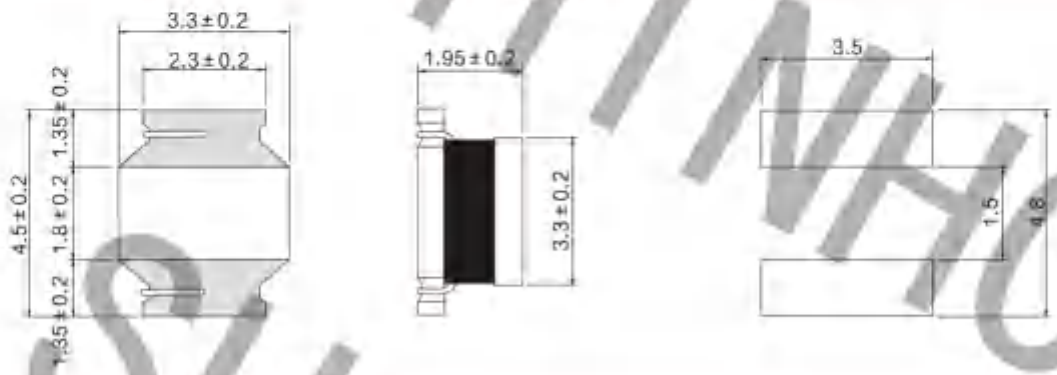
FEATURES:

- Small and thin
- High inductance
- RoHS compliant

APPLICATIONS:

- Watches, Toys, Cameras, Electronic thermometers
- Pagers, PHS, wireless telephones

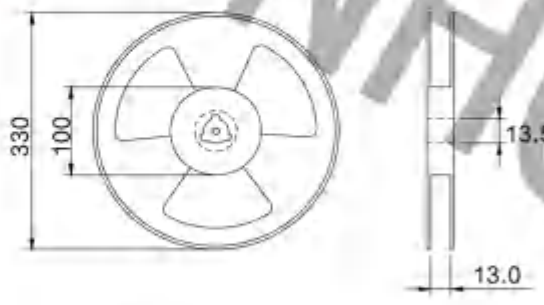
SHAPE AND DIMENSIONS Dimensions(mm)



ELECTRICAL CHARACTERISTICS:

Part No.	Marking	Inductance (mH) ±20% 1KHz,0.25V	DCR (Ω) ±20%
LPS4520-152Y	152	1.5	25
LPS4520-232Y	232	2.3	32
LPS4520-302Y	302	3.0	42
LPS4520-352Y	352	3.5	44
LPS4520-402Y	402	4.0	48
LPS4520-502Y	502	5.0	75
LPS4520-502Y-1	502	5.0	60
LPS4520-702Y	702	7.0	97
LPS4520-153Y	153	15.0	140
LPS4520-203Y	203	20.0	180

PACKING:



3000PCS/REEL
5REEL/BOX
2BOX/CARTON

TECHNICAL INFORMATION:

- Testing: Inductance: HP4284A(1KHz,0.25V)
  RDC: QuadTech 1880 Milliohmmeter A
- Operating temperature: -25℃ to +105℃
- Storage Temperature: -25℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistence: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Note:All specifications subject to change without notice.

SHINHOM

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0402S SERIES



FEATURES:

- Current up to 3A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

ELECTRICAL CHARACTERISTICS:

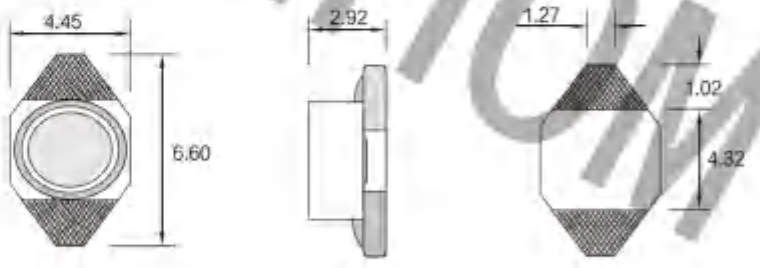
Part Number SPI0402S-	L(μ H) ±20%	DCR (Ω) Max	IDC (A) Max
1R0	1.0	0.040	3.0
1R5	1.5	0.045	2.8
2R2	2.2	0.050	1.8
3R3	3.3	0.055	1.6
4R7	4.7	0.060	1.4
6R8	6.8	0.065	1.2
100	10	0.075	1.0
150	15	0.090	0.80
220	22	0.11	0.70
330	33	0.19	0.60
470	47	0.23	0.50
680	68	0.29	0.40
101	100	0.48	0.30
151	150	0.59	0.26
221	220	0.90	0.22
331	330	1.40	0.20
471	470	1.80	019
681	680	2.20	0.18
102	100	3.40	0.15
152	1500	4.20	0.12
222	2200	8.50	0.10
332	3300	11.0	0.08
472	4700	13.9	0.06
682	6800	25.0	0.04
103	10000	32.8	0.02

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

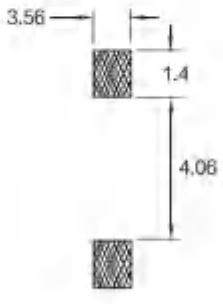
Notel:All specification subject to change without noticed.

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



SHINHOM

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0802S SERIES



FEATURES:

- Current up to 4A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

ELECTRICAL CHARACTERISTICS:

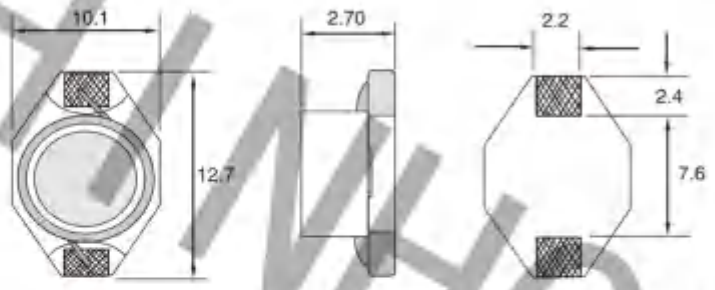
Part Number SPI0802S-	L(μ H) ±20%	DCR (Ω) Max	IDC (A) Max
1R5	1.5	0.038	4.00
2R2	2.2	0.045	3.50
3R3	3.3	0.062	3.00
4R7	4.7	0.78	2.50
6R8	6.8	0.10	2.20
100	10	0.145	2.00
150	15	0.20	1.50
220	22	0.30	1.30
330	33	0.45	1.10
470	47	0.65	0.80
680	68	0.80	0.70
101	100	1.40	0.60
151	150	1.80	0.50
221	220	2.20	0.40
331	330	3.60	0.30
471	470	5.10	0.20

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A – SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

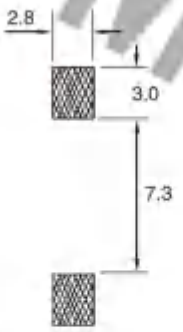
Notel:All specification subject to change without noticed.

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



SHINHOM

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI0802S SERIES



FEATURES:

- Current up to 4A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

ELECTRICAL CHARACTERISTICS:

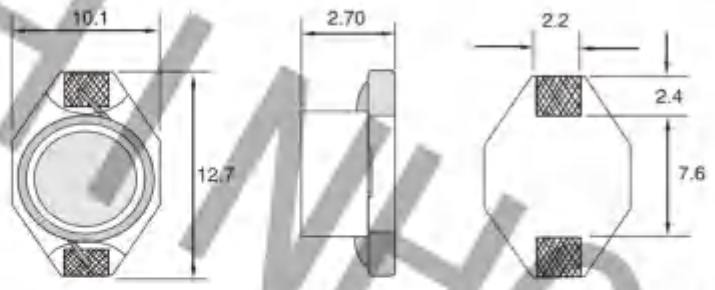
Part Number SPI0802S-	L(μ H) ±20%	DCR (Ω) Max	IDC (A) Max
1R5	1.5	0.038	4.00
2R2	2.2	0.045	3.50
3R3	3.3	0.062	3.00
4R7	4.7	0.78	2.50
6R8	6.8	0.10	2.20
100	10	0.145	2.00
150	15	0.20	1.50
220	22	0.30	1.30
330	33	0.45	1.10
470	47	0.65	0.80
680	68	0.80	0.70
101	100	1.40	0.60
151	150	1.80	0.50
221	220	2.20	0.40
331	330	3.60	0.30
471	470	5.10	0.20

- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A – SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

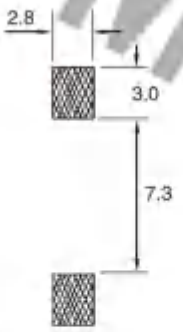
Notel:All specification subject to change without noticed.

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



SHINHOM

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI1306S SERIES



FEATURES:

- Current up to 3.9A
- Very Small Foot Print
- Flat-top for Pick & Place

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up,Step-down Converters

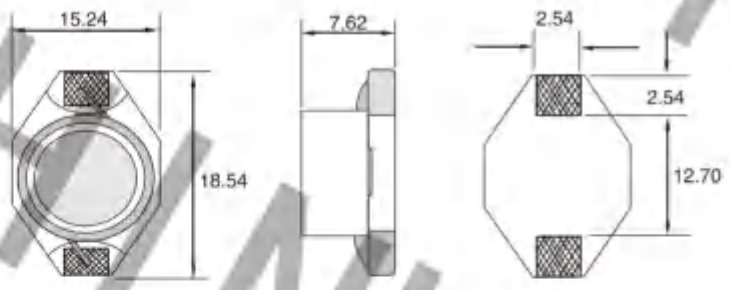
ELECTRICAL CHARACTERISTICS:

Part Number SPI1306S-	L(μ H) ±20%	DCR (Ω) Max	IDC (A) Max
100	10	0.040	3.9
150	15	0.048	3.4
220	22	0.059	3.1
330	33	0.075	2.8
470	47	0.097	2.4
680	68	0.138	2.0
101	100	0.207	1.7
151	150	0.293	1.3
221	220	0.470	1.1
331	330	0.780	0.86
471	470	1.08	0.73
681	680	1.40	0.64
102	100	2.01	0.53

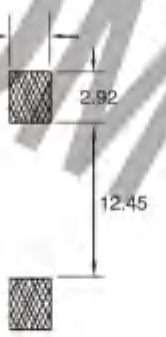
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A – SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating Temperature:-40℃ to+85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

PHYSICAL CHARACTERISTICS

DIMENSION:(mm)



PAD LAYOUT



Notel:All specification subject to change without noticed.

SHINHOM



HIGH CURRENT POWER INDUCTORS
HCB0404 0505 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 22nH to 110nH
- Current range from 14A to 40A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

APPLICATIONS:

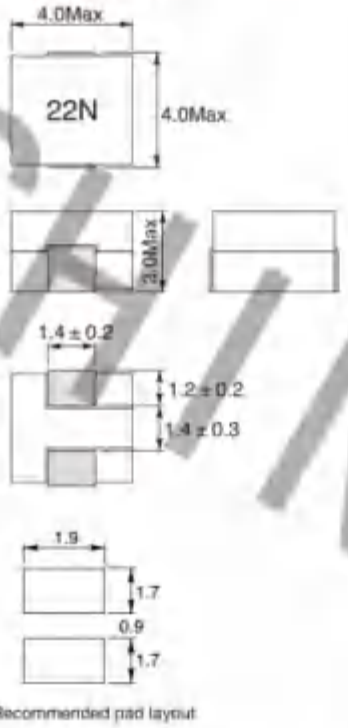
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ) ± 25%
HCB0404R1-22NM	22 ± 20%	15	19	40	32	0.32 ± 15%
HCB0404R1-65NY	65	44	19	24	20	0.32
HCB0404R1-80NY	80	54	19	20	16	0.32
HCB0404R1-R10Y	100	68	19	16	13	0.32
HCB0404R1-R11Y	110	74	19	14	12	0.32
HCB0505R1-R10K	100	68	30	34	24	0.39

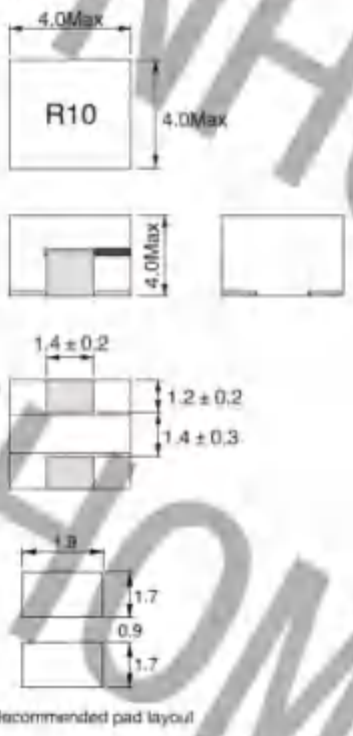
DIMENSIONS:(mm)

0404R1-22NM



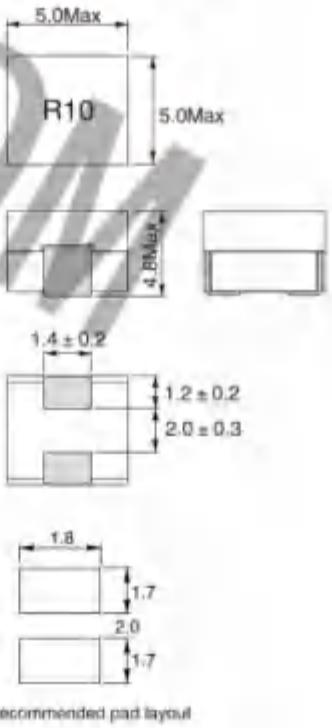
Recommended pad layout

0404R1-65NY,80NY,R10Y,R11Y



Recommended pad layout

0505R1-R10K



Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃ (1MHz/0.1V for 22NM)
- Irms: DC current for an approximate temperatuse rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

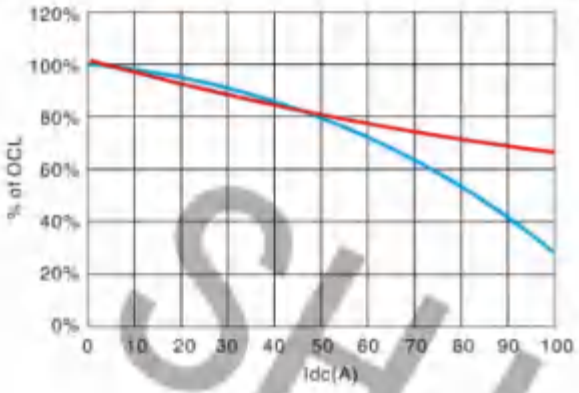
SHINHOM



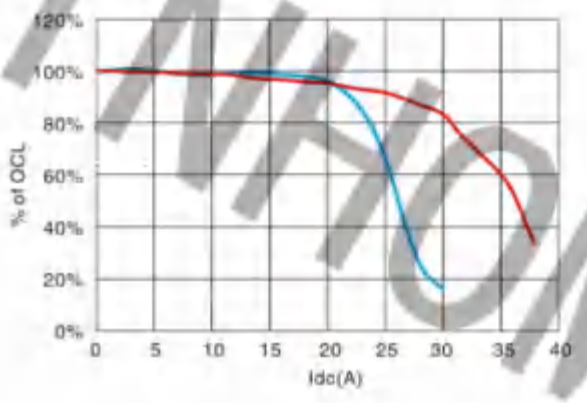
HIGH CURRENT POWER INDUCTORS
HCB0404 0505 SERIES

INDUCTANCE CHARACTERISICS:

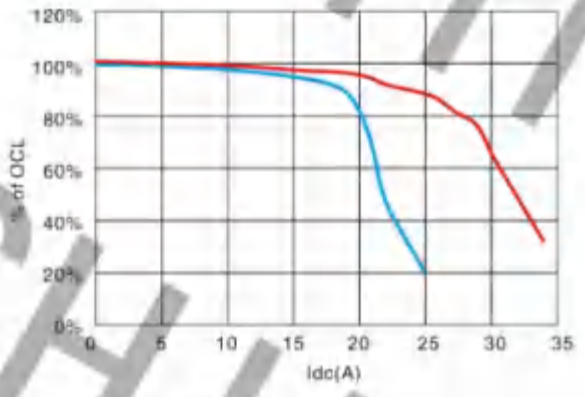
HCB0404R1-22NM



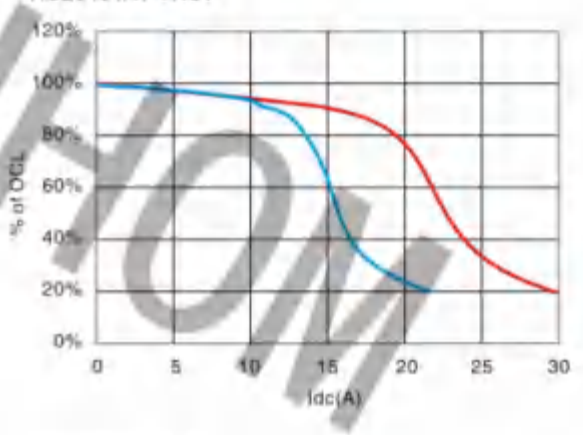
HCB0404R1-65NY



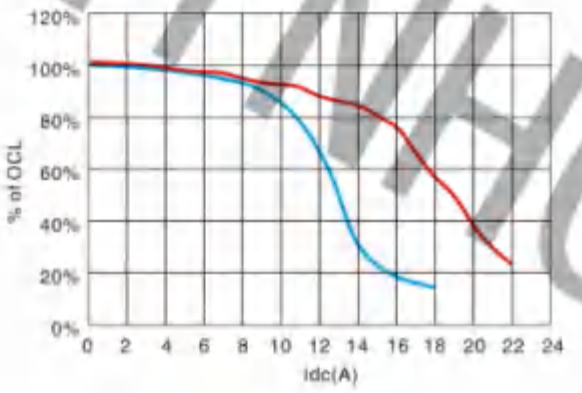
HCB0404R1-80NY



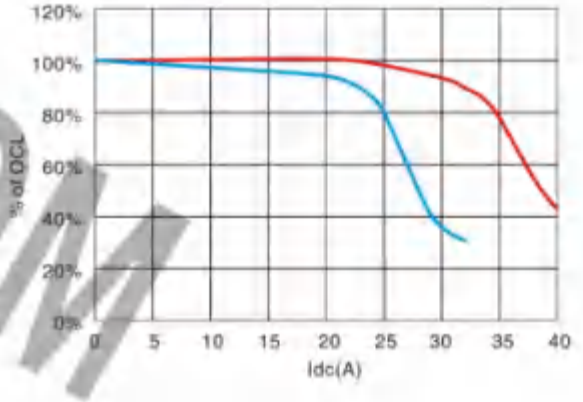
HCB0404R1-R10Y



HCB0404R1-R11Y



HCB0505R1-R10K



+25℃
+125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB0703 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 80nH to 150nH
- Current range from 16A to 32A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

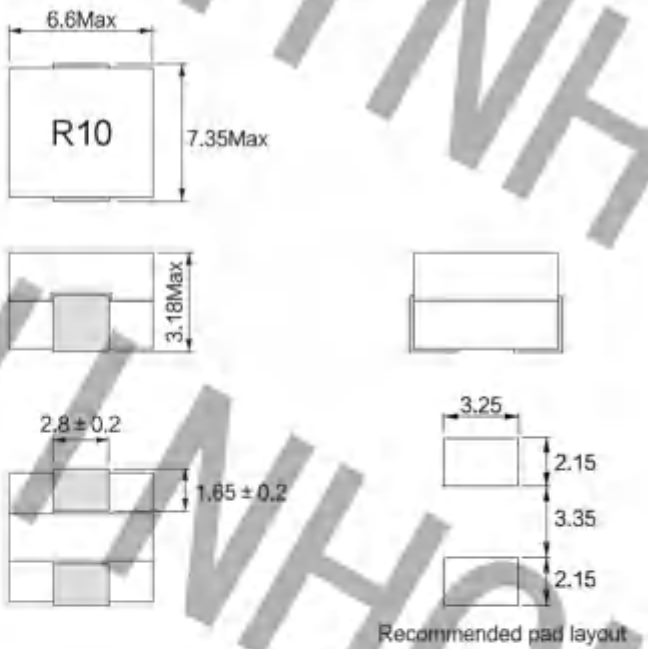
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 °C (mΩ) ± 10%
HCB0703R1-80NK	80	54	28	32	27	1.35
HCB0703R1-R10K	100	72	28	27	23	1.35
HCB0703R1-R12K	120	86	28	22	19	1.35
HCB0703R1-R15K	150	108	28	16	13	1.35

DIMENSIONS(mm) :



SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

Note:All specifications subject to change without notice.

SHINHOM SHINHOM SHINHOM

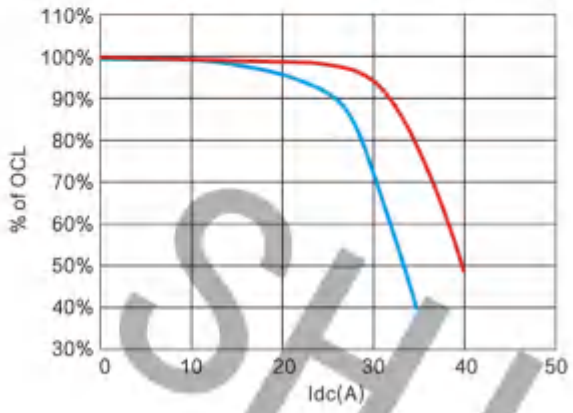


HIGH CURRENT POWER INDUCTORS

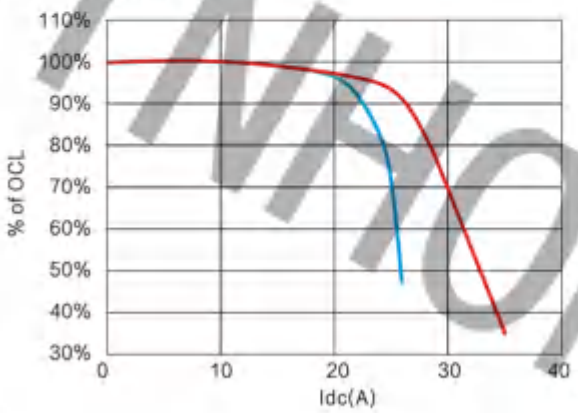
HCB0703 SERIES

INDUCTANCE CHARACTERISICS:

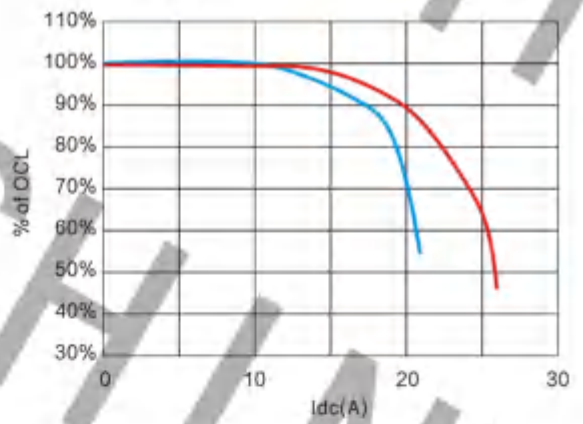
HCB0703R1-80NK



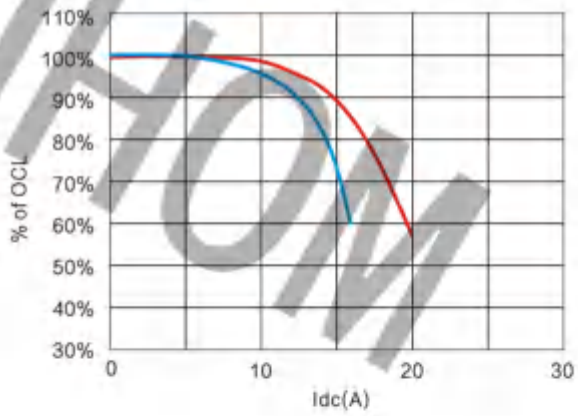
HCB0703R1-R10K



HCB0703R1-R12K



HCB0703R1-R15K



+25℃

+125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS
HCB0705 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 72nH to 226nH
- Current range from 20A to 65A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
  Bulk packaging Available
  for Smaller Quantities

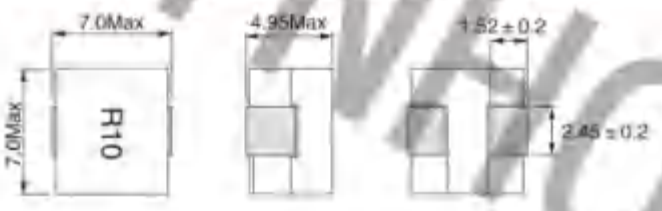
APPLICATIONS:

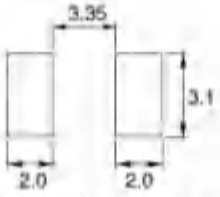
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25°C (mΩ)
HCB0705R1-72NK	72	51	43	65	50	0.25 ± 8%
HCB0705R1-R10K	105	78	43	44	34	0.25 ± 8%
HCB0705R1-R12K	120	86	43	37	30	0.25 ± 8%
HCB0705R1-R15K	150	108	43	30	24	0.25 ± 8%
HCB0705R1-R18K	180	130	43	25	20	0.25 ± 8%
HCB0705R1-R22K	226	159	43	20	16	0.25 ± 8%
HCB0705R2-72NK	72	51	38	65	50	0.32 ± 7%
HCB0705R2-R10K	105	78	38	44	34	0.32 ± 7%
HCB0705R2-R12K	120	86	38	37	30	0.32 ± 7%
HCB0705R2-R15K	150	108	38	30	24	0.32 ± 7%
HCB0705R2-R18K	180	130	38	25	20	0.32 ± 7%
HCB0705R2-R22K	226	159	38	20	16	0.32 ± 7%
HCB0705R3-72NK	72	51	32	65	50	0.46 ± 6%
HCB0705R3-R10K	105	78	32	44	34	0.46 ± 6%
HCB0705R3-R12K	120	86	32	37	30	0.46 ± 6%
HCB0705R3-R15K	150	108	32	30	24	0.46 ± 6%
HCB0705R3-R18K	180	130	32	25	20	0.46 ± 6%
HCB0705R3-R22K	226	159	32	20	16	0.46 ± 6%

DIMENSIONS(mm) :





Recommended pad layout

SCHEMATIC :



NOTES:

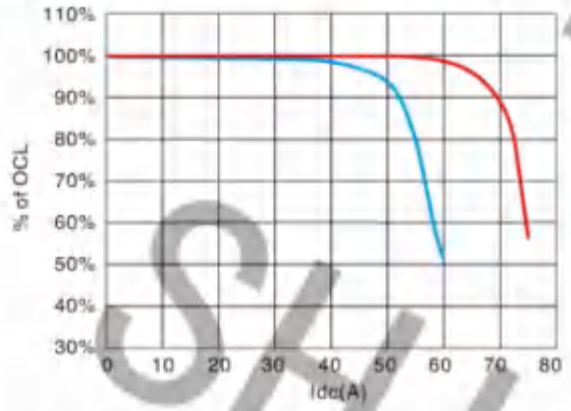
- Test Frequency : 100KHz / 0.1V@25°C
- Irms: DC current for an approximate temperature rise of 40°C without core loss
- Isat1: Peak current for approximately 20% rolloff at +25°C
- Isat2: Peak current for approximately 20% rolloff at +125°C
- Operating temperature: -40°C to +125°C(ambient plus self-temperature rise)
- Storage temperature: -40°C to +125°C



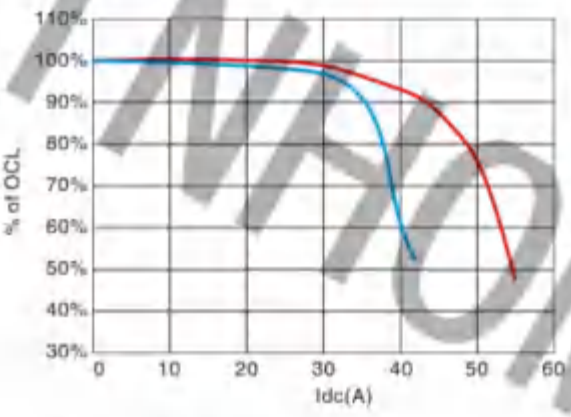
HIGH CURRENT POWER INDUCTORS
HCB0705 SERIES

INDUCTANCE CHARACTERISICS:

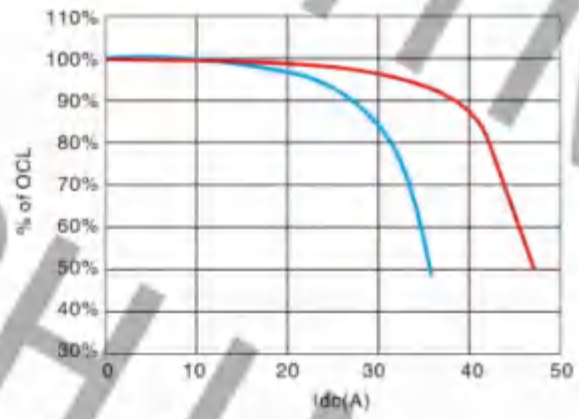
HCB0705RX-72NK



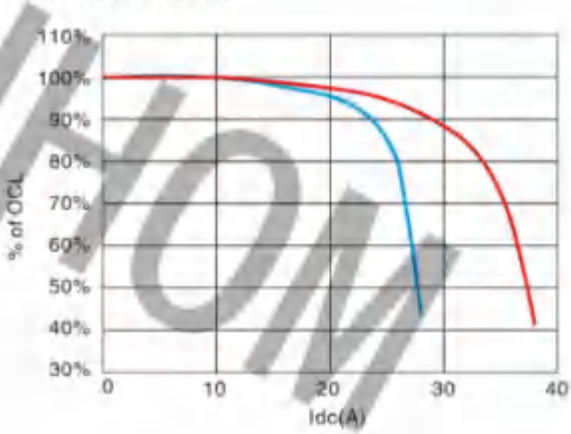
HCB0705RX-R10K



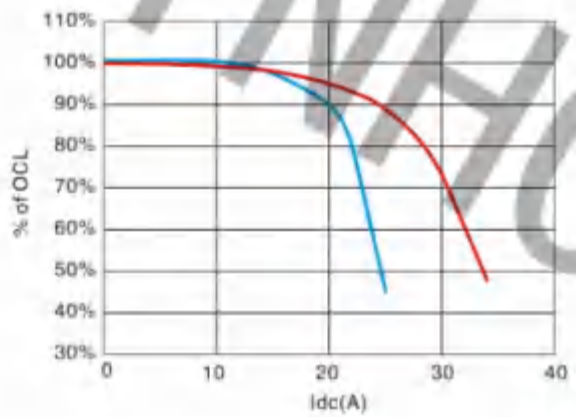
HCB0705RX-R12K



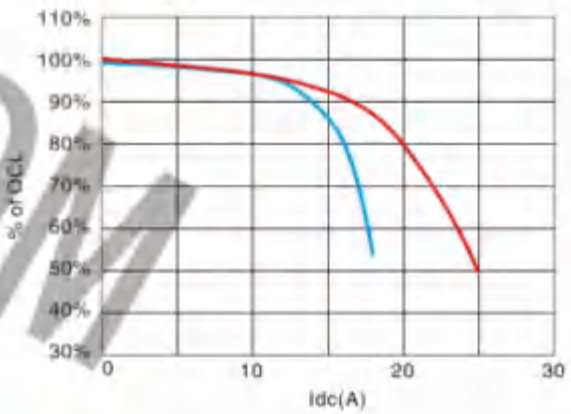
HCB0705RX-R15K



HCB0705RX-R18K



HCB0705RX-R22K



+25℃ +125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB0805 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 32nH to 200nH
- Current range from 20A to 110A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

APPLICATIONS:

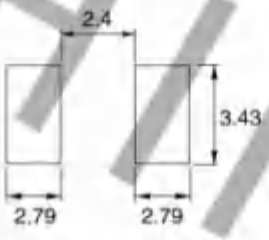
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB0805R1-32NK	32	23	65	110	95	0.17±8%
HCB0805R1-58NK	58	42	65	83	61	0.17±8%
HCB0805R1-72NK	72	52	65	67	49	0.17±8%
HCB0805R1-R10K	100	72	65	50	35	0.17±8%
HCB0805R1-R20K	200	144	65	20	16	0.17±8%

DIMENSIONS(mm) :





Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

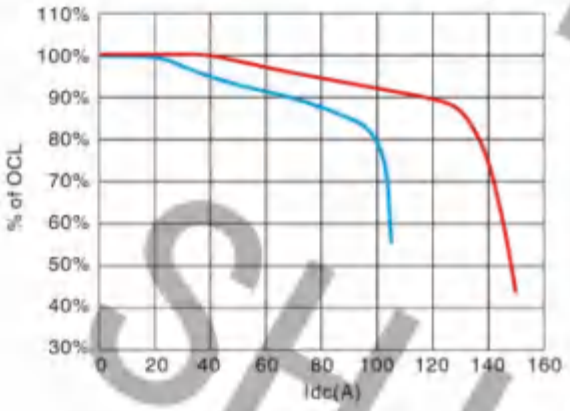


HIGH CURRENT POWER INDUCTORS

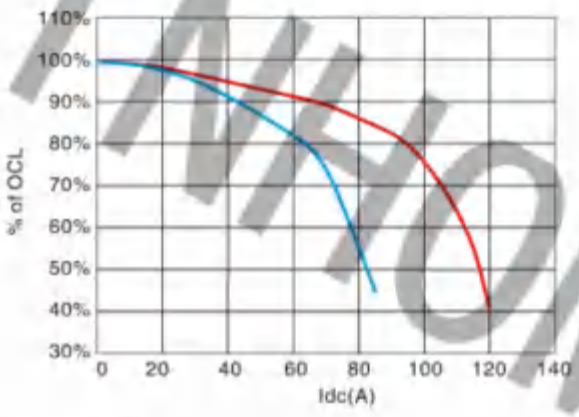
HCB0805 SERIES

INDUCTANCE CHARACTERISICS:

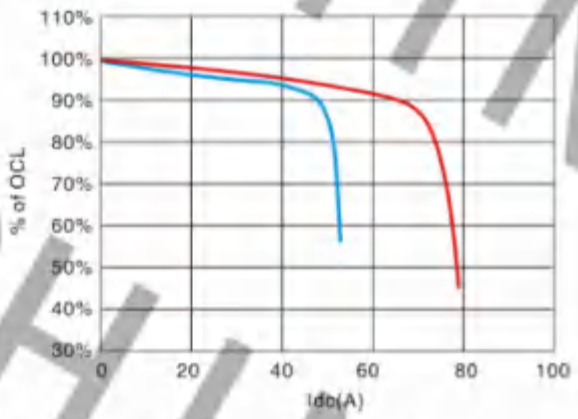
HCB0805R1-32NK



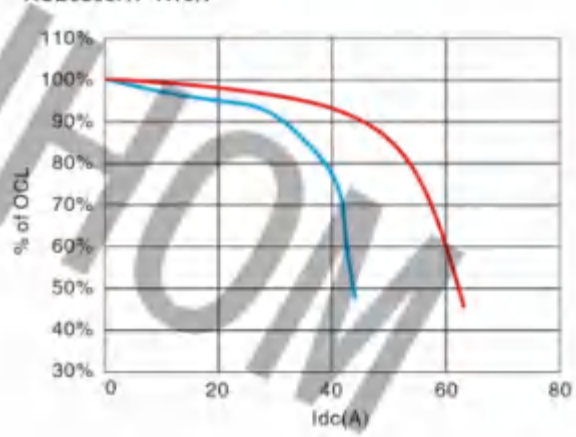
HCB0805R1-58NK



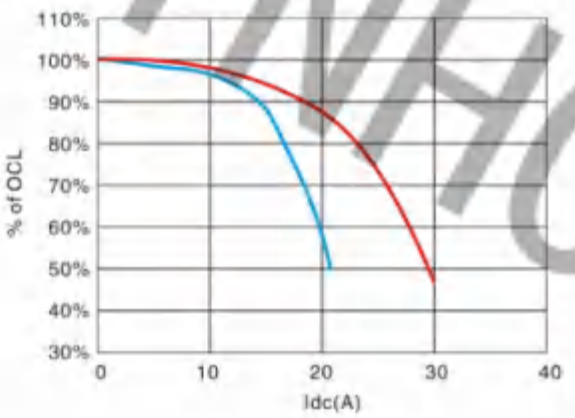
HCB0805R1-72NK



HCB0805R1-R10K



HCB0805R1-R20K





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HIGH CURRENT POWER INDUCTORS

HCB0906 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 100nH to 300nH
- Current range from 32.5A to 94A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

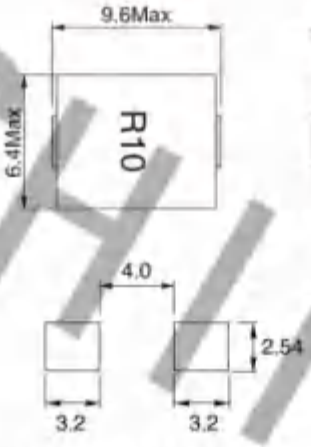
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB0906R1-R10K	100	72	51	94	81	0.29±5%
HCB0906R1-R12K	120	86	51	79	68	0.29±5%
HCB0906R1-R15K	150	108	51	65	54.5	0.29±5%
HCB0906R1-R22K	220	155	51	44	37.5	0.29±5%
HCB0906R1-R28K	280	200	51	34	29	0.29±5%
HCB0906R1-R30K	300	216	51	32.5	27.5	0.29±5%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

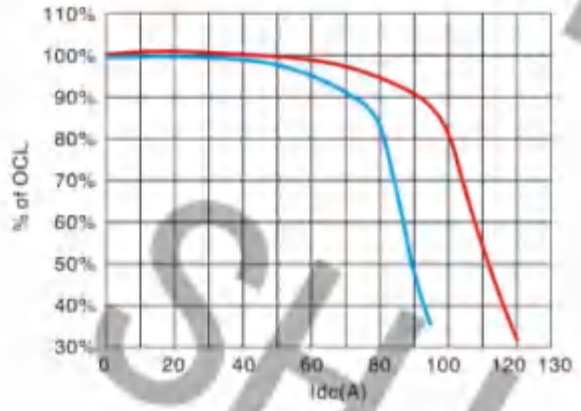
SHINHOM



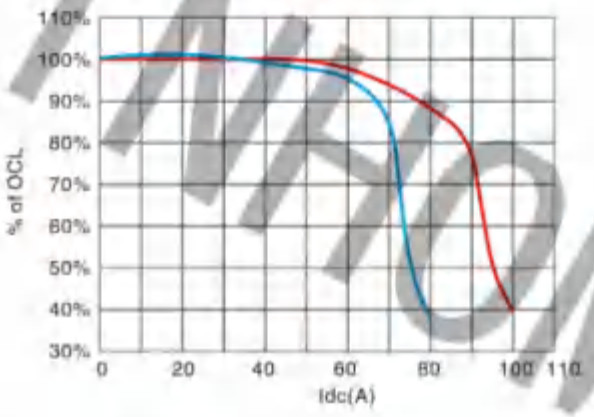
HIGH CURRENT POWER INDUCTORS
HCB0906 SERIES

INDUCTANCE CHARACTERISICS:

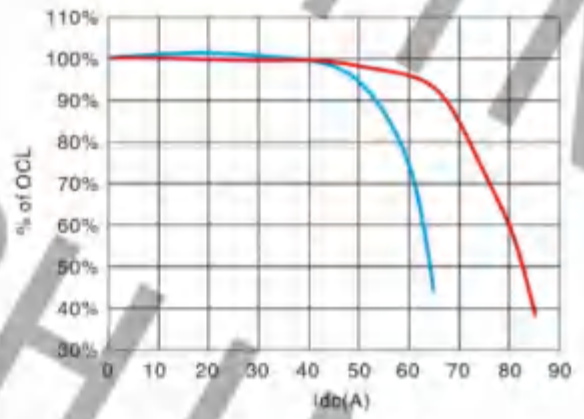
HCB0906R1-R10K



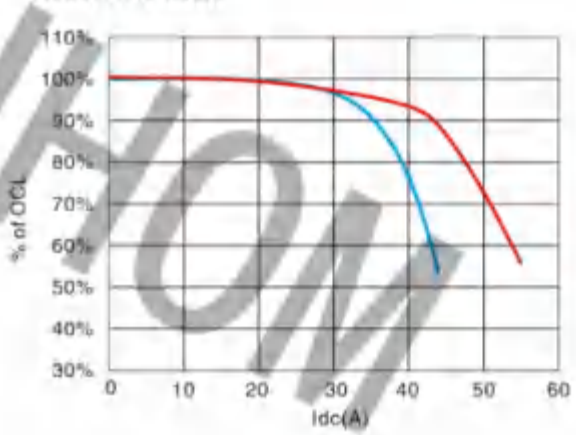
HCB0906R1-R12K



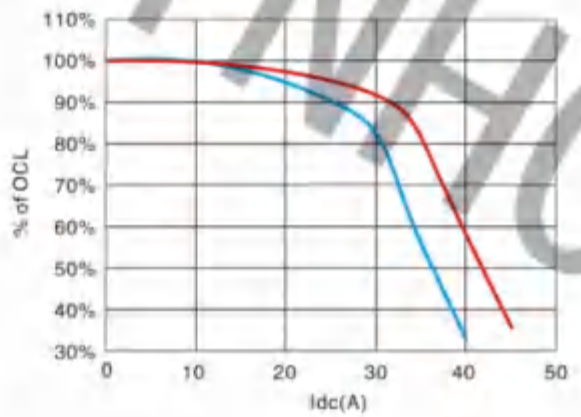
HCB0906R1-R15K



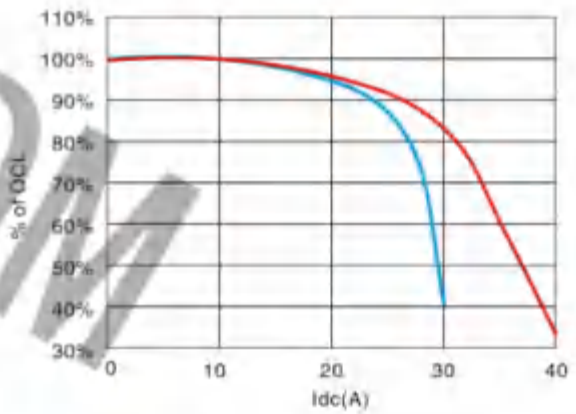
HCB0906R1-R22K



HCB0906R1-R28K



HCB0906R1-R30K



+25℃ +125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1005 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 80nH to 220nH
- Current range from 33A to 90A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

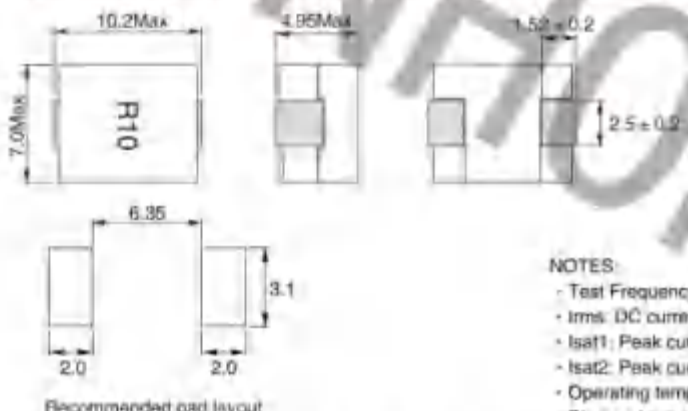
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 °C (mΩ)
HCB1005R1-80NK	80	60	53	90	64	0.39 ± 7.5%
HCB1005R1-R10K	100	72	53	73	57	0.39 ± 7.5%
HCB1005R1-R12K	120	86	53	60	48	0.39 ± 7.5%
HCB1005R1-R15K	150	108	53	47	37	0.39 ± 7.5%
HCB1005R1-R22K	220	158	53	33	26	0.39 ± 7.5%
HCB1005R2-80NK	80	60	50	90	64	0.47 ± 6.5%
HCB1005R2-R10K	100	72	50	73	57	0.47 ± 6.5%
HCB1005R2-R12K	120	86	50	60	48	0.47 ± 6.5%
HCB1005R2-R15K	150	108	50	47	37	0.47 ± 6.5%
HCB1005R2-R22K	220	158	50	33	26	0.47 ± 6.5%
HCB1005R3-80NK	80	60	50	90	64	0.55 ± 5.4%
HCB1005R3-R10K	100	72	50	73	57	0.55 ± 5.4%
HCB1005R3-R12K	120	86	50	60	48	0.55 ± 5.4%
HCB1005R3-R15K	150	108	50	47	37	0.55 ± 5.4%
HCB1005R3-R22K	220	158	50	33	26	0.55 ± 5.4%
HCB1005R4-80NK	80	60	53	90	64	0.31 ± 7.0%
HCB1005R4-R10K	100	72	53	73	57	0.31 ± 7.0%
HCB1005R4-R12K	120	86	53	60	48	0.31 ± 7.0%
HCB1005R4-R15K	150	108	53	47	37	0.31 ± 7.0%
HCB1005R4-R22K	220	158	53	33	26	0.31 ± 7.0%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

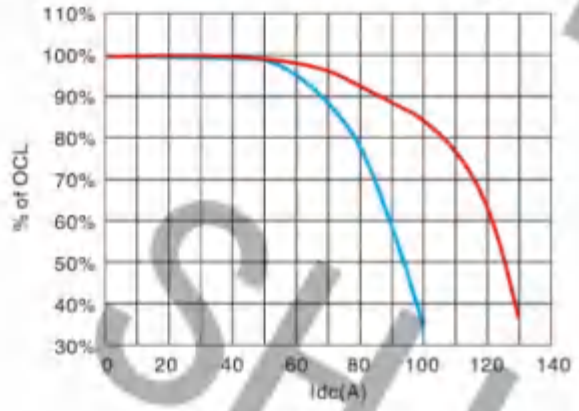
- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃



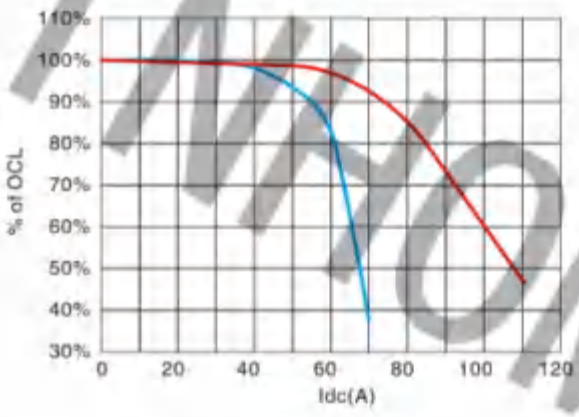
HIGH CURRENT POWER INDUCTORS
HCB1005 SERIES

INDUCTANCE CHARACTERISICS:

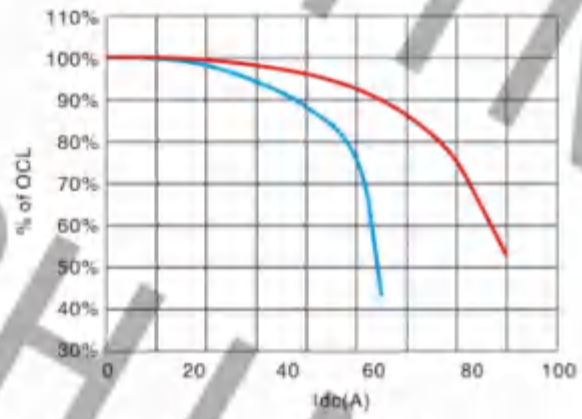
HCB1005RX-80NK



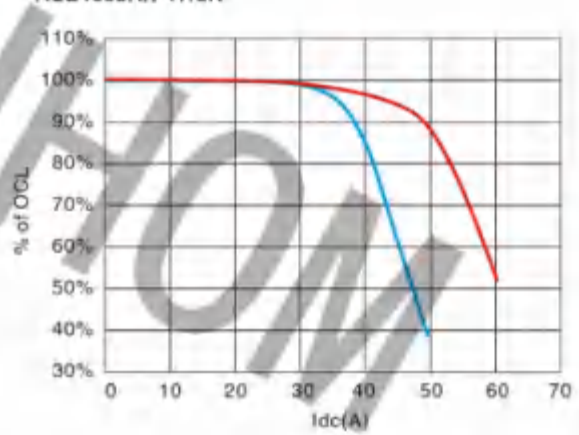
HCB1005RX-R10K



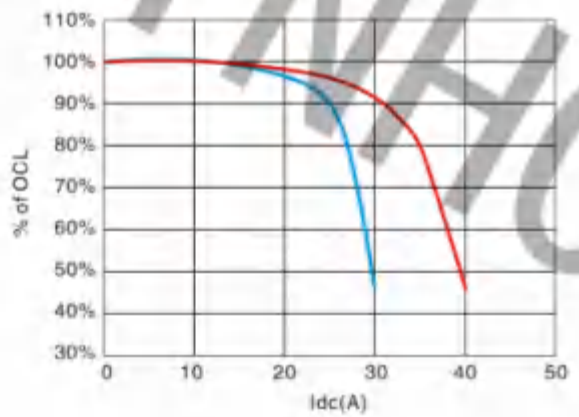
HCB1005RX-R12K



HCB1005RX-R15K



HCB1005RX-R22K





SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1007 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 115nH to 470nH
- Current range from 23.5A to 94A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

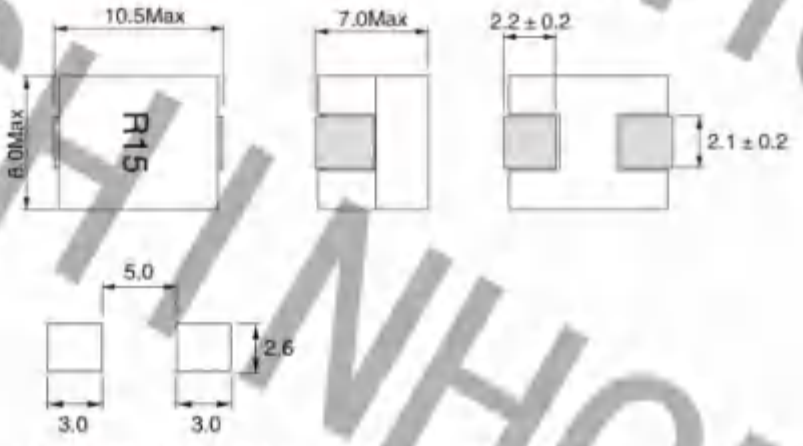
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25°C (mΩ)
HCB1007R1-R11K	115	83	61	94	86	0.29±5%
HCB1007R1-R15K	150	108	61	75	60	0.29±5%
HCB1007R1-R18K	180	129	61	60	50	0.29±5%
HCB1007R1-R22K	220	158	61	50	40	0.29±5%
HCB1007R1-R27K	270	194	61	41	33	0.29±5%
HCB1007R1-R30K	300	216	61	35	30	0.29±5%
HCB1007R1-R33K	330	237	61	33	26.5	0.29±5%
HCB1007R1-R39K	390	280	61	28	22.5	0.29±5%
HCB1007R1-R47K	470	338	61	23.5	19	0.29±5%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

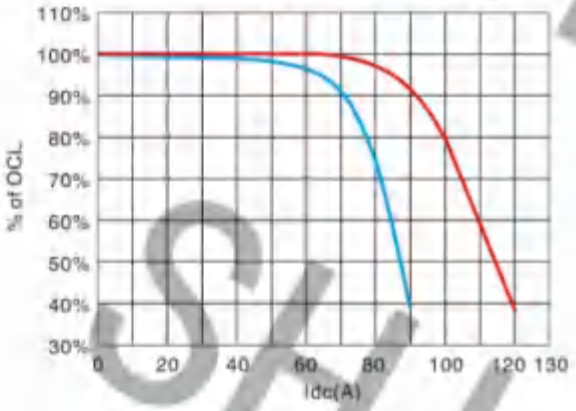


HIGH CURRENT POWER INDUCTORS

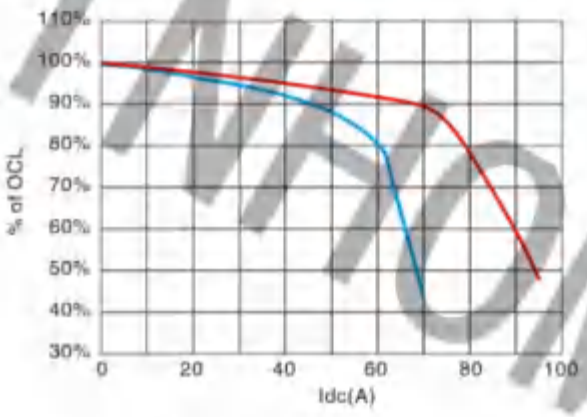
HCB1007 SERIES

INDUCTANCE CHARACTERISICS:

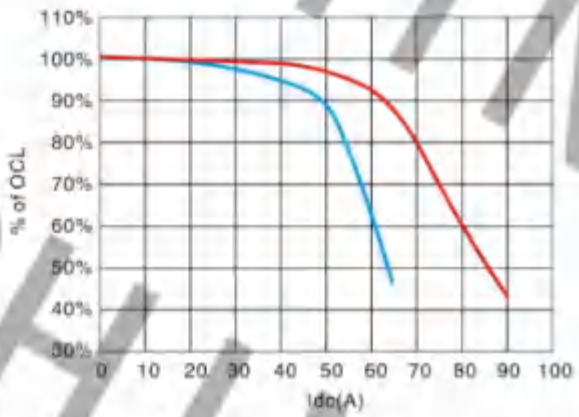
HCB1007R1-R11K



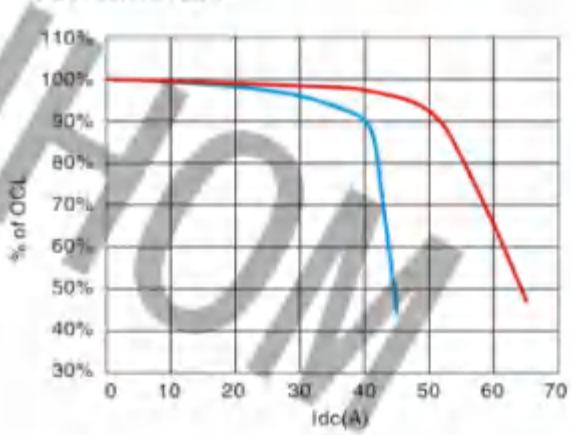
HCB1007R1-R15K



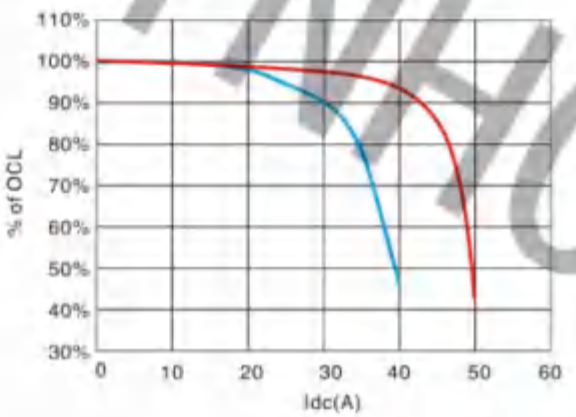
HCB1007R1-R18K



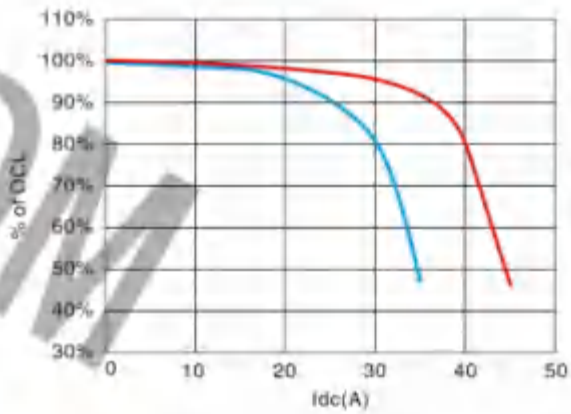
HCB1007R1-R22K



HCB1007R1-R27K



HCB1007R1-R30K



+25℃ +125℃

SHINHOM SHINHOM SHINHOM

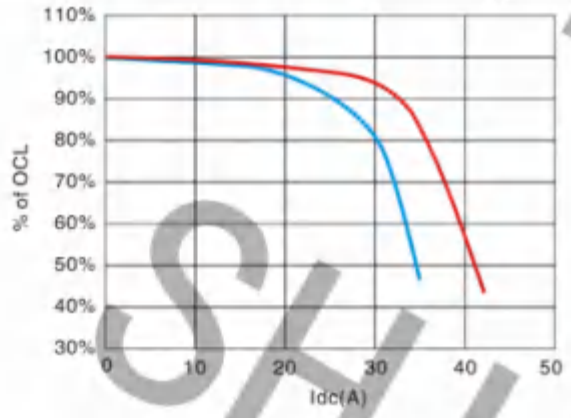


HIGH CURRENT POWER INDUCTORS

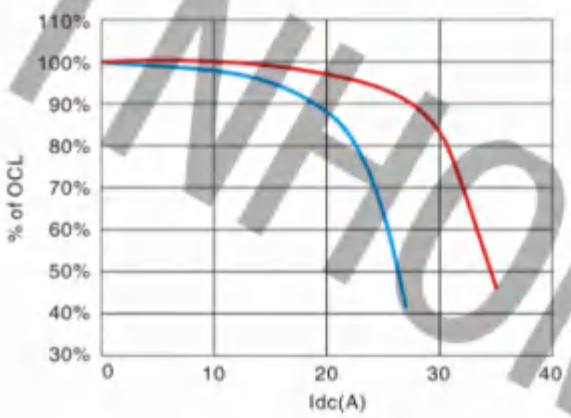
HCB1007 SERIES

INDUCTANCE CHARACTERISICS:

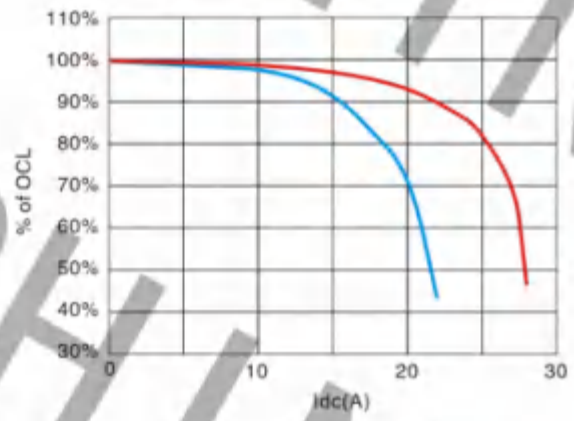
HCB1007R1-R33K



HCB1007R1-R39K



HCB1007R1-R47K



+25℃ +125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1008 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 120nH to 220nH
- Current range from 58A to 95A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

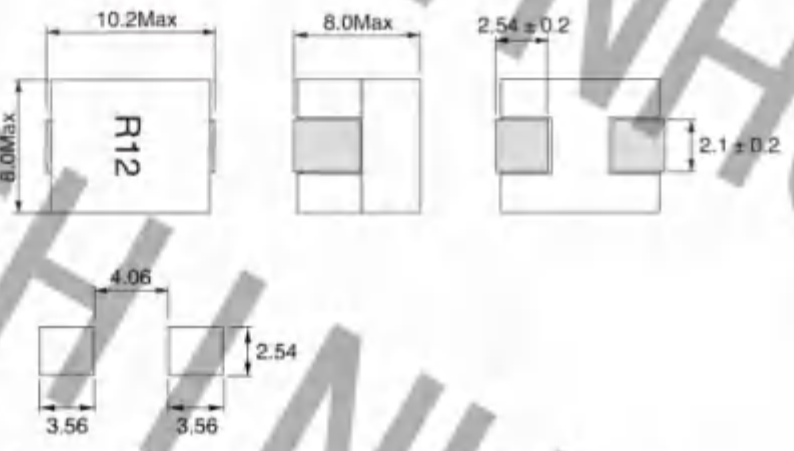
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1008R1-R12K	120	86.4	68	95	77	0.18±5%
HCB1008R1-R15K	150	108	68	79	66	0.18±5%
HCB1008R1-R18K	180	129.6	68	62	52	0.18±5%
HCB1008R1-R22K	220	158.4	68	58	47	0.18±5%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

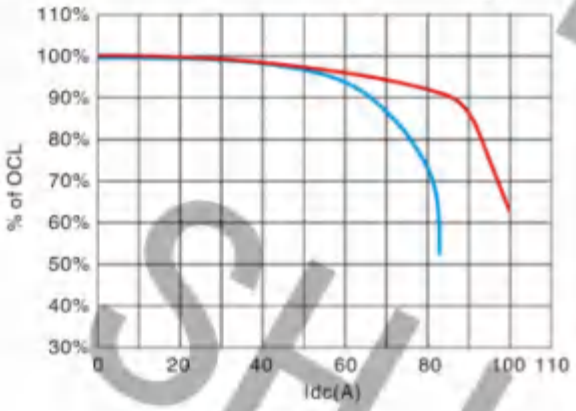


HIGH CURRENT POWER INDUCTORS

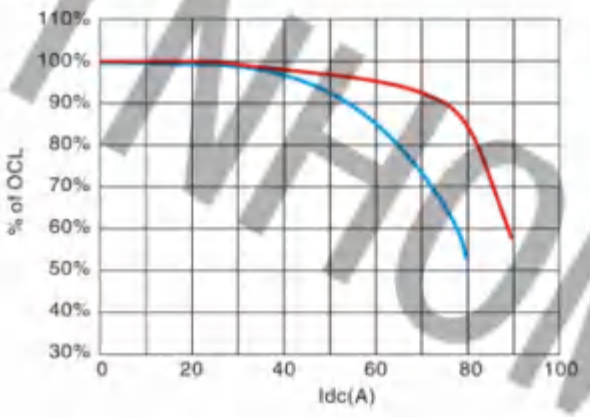
HCB1008 SERIES

INDUCTANCE CHARACTERISICS:

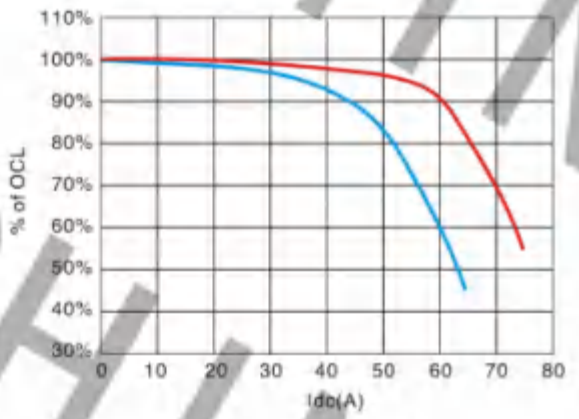
HCB1008R1-R12K



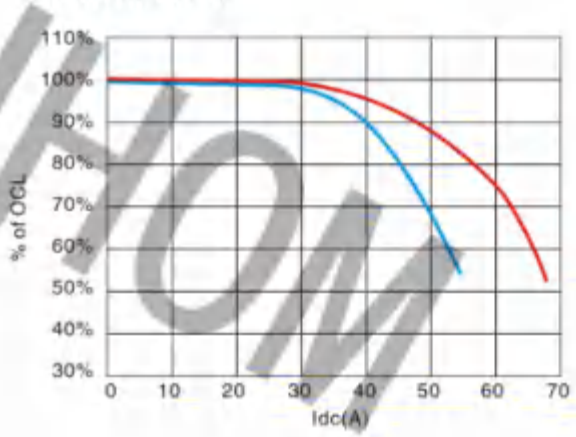
HCB1008R1-R15K



HCB1008R1-R18K



HCB1008R1-R22K



+25℃ +125℃

SHINHOM SHINHOM SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1107 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 120nH to 510nH
- Current range from 18A to 90A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

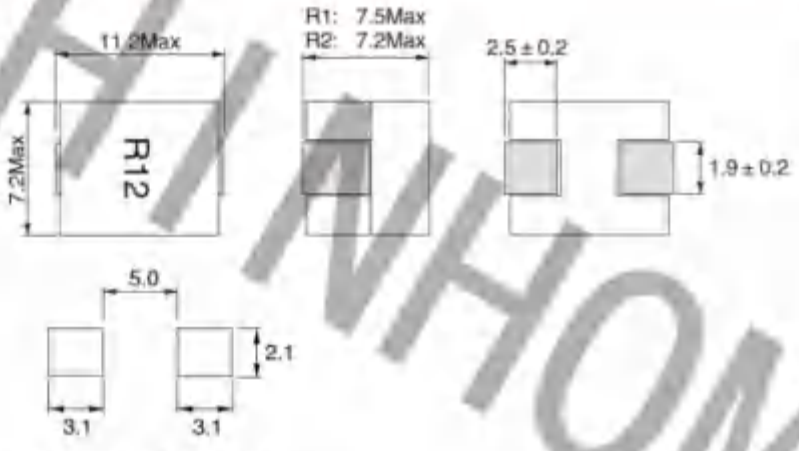
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

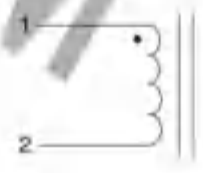
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1107R1-R12K	120	86	55	90	72	0.29±5%
HCB1107R1-R15K	150	108	55	70	56	0.29±5%
HCB1107R1-R23K	230	166	55	45	36	0.29±5%
HCB1107R1-R30K	300	217	55	35	28	0.29±5%
HCB1107R1-R40K	400	288	55	25	20	0.29±5%
HCB1107R1-R51K	510	364	55	18	14.5	0.29±5%
HCB1107R2-R12K	120	86	42	90	72	0.47±6%
HCB1107R2-R15K	150	108	42	70	56	0.47±6%
HCB1107R2-R23K	230	166	42	45	36	0.47±6%
HCB1107R2-R30K	300	217	42	35	28	0.47±6%
HCB1107R2-R40K	400	288	42	25	20	0.47±6%
HCB1107R2-R51K	510	364	42	18	14.5	0.47±6%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

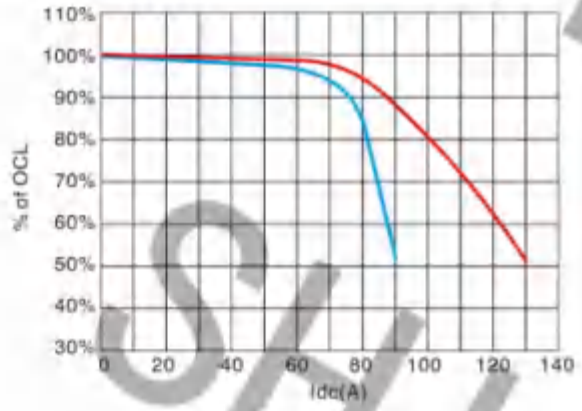


HIGH CURRENT POWER INDUCTORS

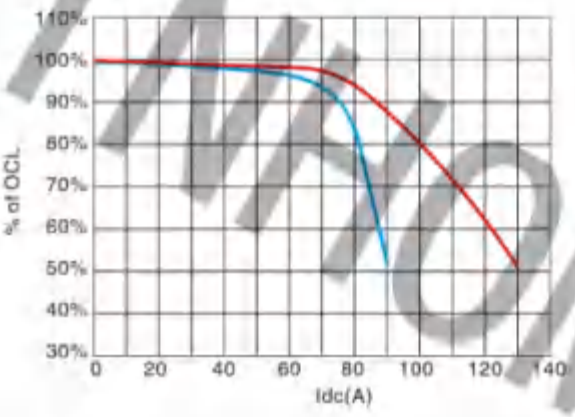
HCB1107 SERIES

INDUCTANCE CHARACTERISICS:

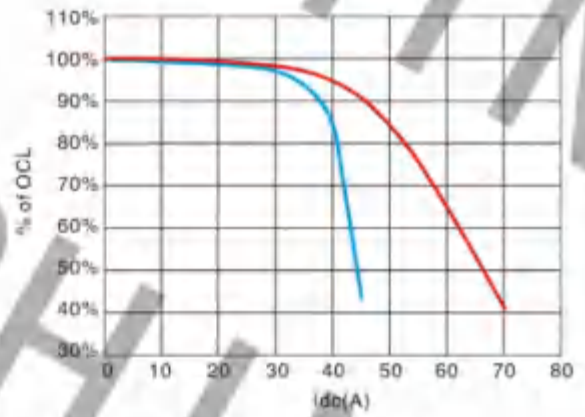
HCB1107RX-R12K



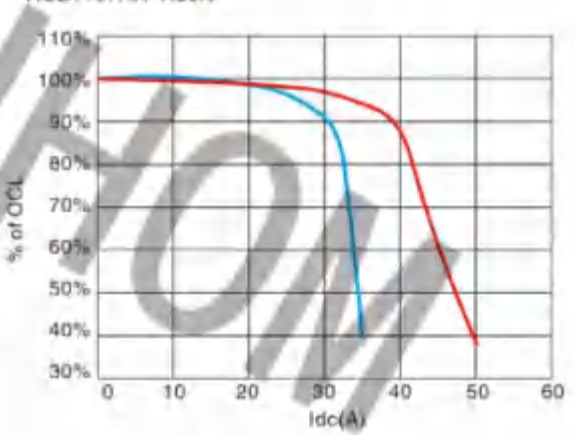
HCB1107RX-R15K



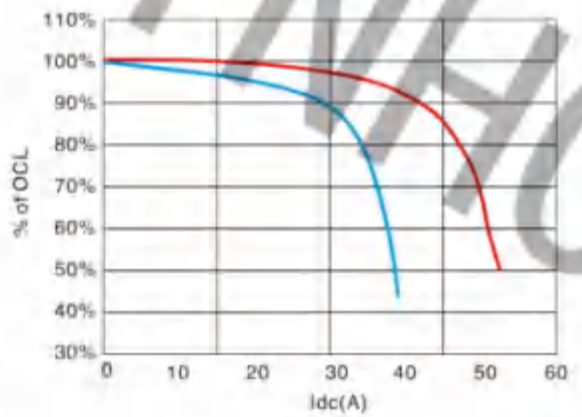
HCB1107RX-R23K



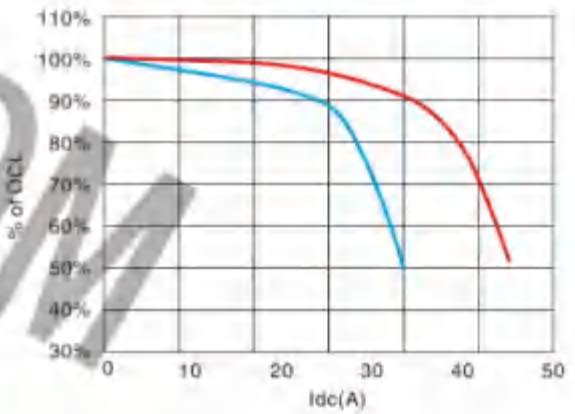
HCB1107RX-R30K



HCB1107RX-R40K



HCB1107RX-R51K



+25℃ +125℃

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HIGH CURRENT POWER INDUCTORS

HCB1208 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 150nH to 250nH
- Current range from 55A to 85A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

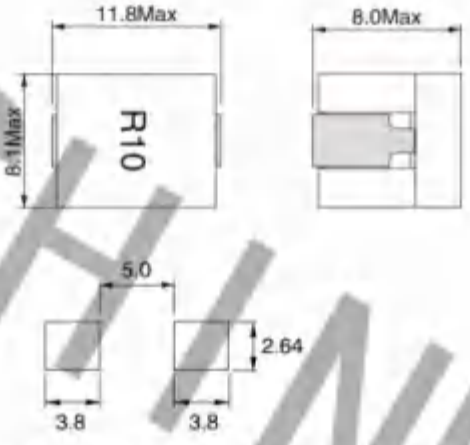
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ)
HCB1208R1-R15K	150	114	50	85	72	0.29±5%
HCB1208R1-R18K	180	137	50	72	63	0.29±5%
HCB1208R1-R21K	210	160	50	65	55	0.29±5%
HCB1208R1-R23K	230	176	50	61	50	0.29±5%
HCB1208R1-R25K	250	191	50	55	44	0.29±5%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat1: Peak current for approximately 20% rolloff at +25℃
- Isat2: Peak current for approximately 20% rolloff at +125℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

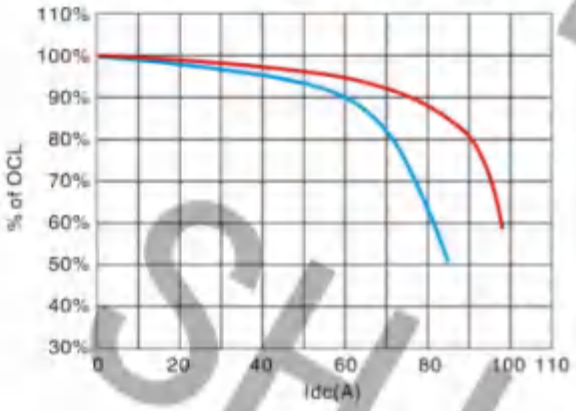


HIGH CURRENT POWER INDUCTORS

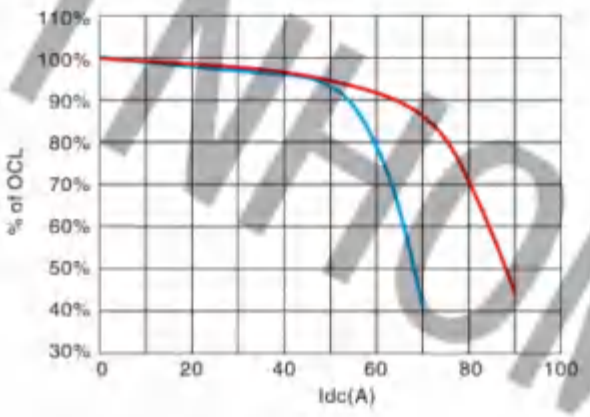
HCB1208 SERIES

INDUCTANCE CHARACTERISICS:

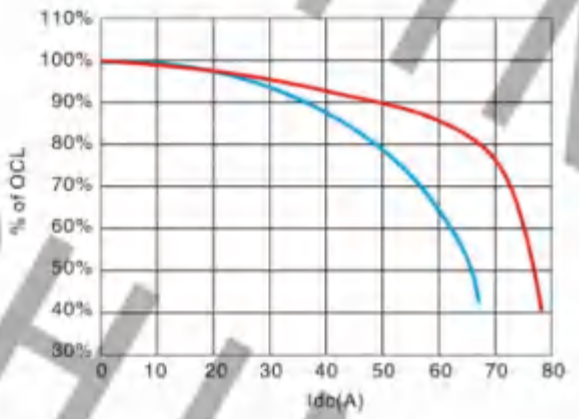
HCB1208R1-R15K



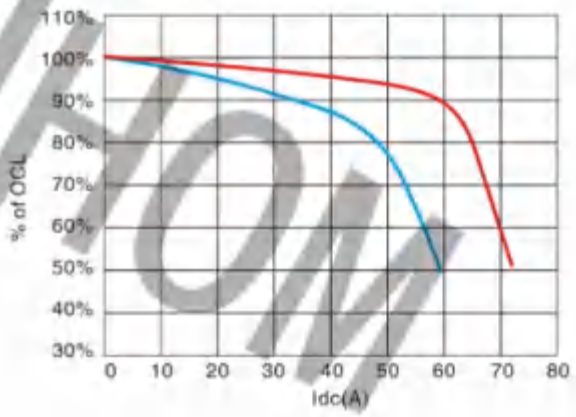
HCB1208R1-R18K



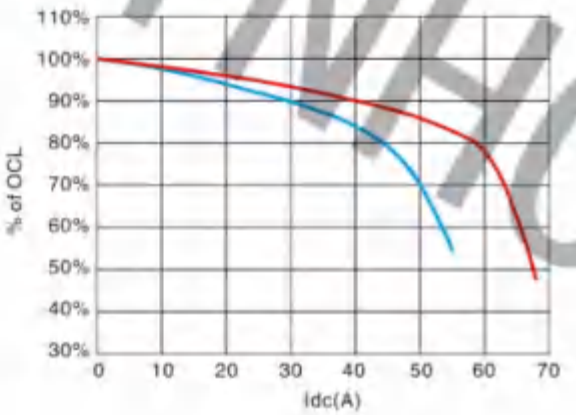
HCB1208R1-R21K



HCB1208R1-R23K



HCB1208R1-R25K



SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1211 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 230nH to 540nH
- Current range from 26A to 60A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

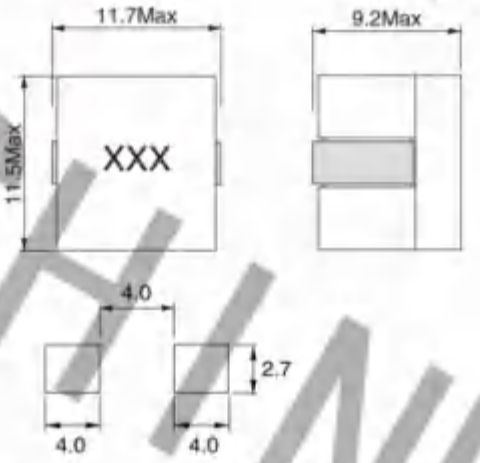
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25℃ (mΩ)
HCB1211R1-R23K	230	184	40	60	0.3 ± 7%
HCB1211R1-R32K	320	256	40	45	0.3 ± 7%
HCB1211R1-R38K	380	304	40	40	0.3 ± 7%
HCB1211R1-R46K	460	368	40	32	0.3 ± 7%
HCB1211R1-R54K	540	432	40	26	0.3 ± 7%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1313 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 210nH to 520nH
- Current range from 13A to 71A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

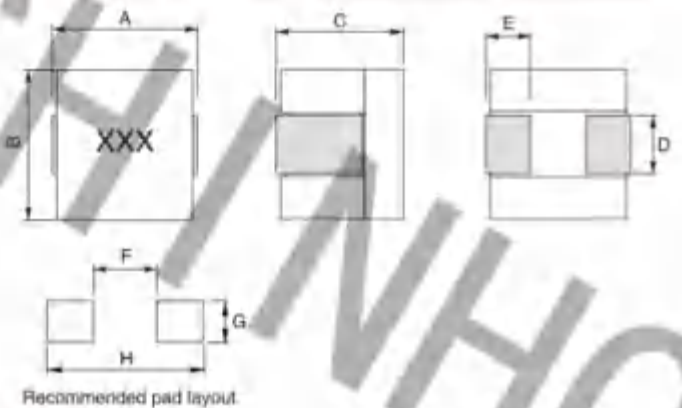
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25 ℃ (mΩ)
HCB1313R1-R22K	220	176	50	40	0.155 ± 10%
HCB1313R1-R28K	280	224	50	30	0.155 ± 10%
HCB1313R1-R31K	310	248	50	24	0.155 ± 10%
HCB1313R1-R40K	400	320	50	18	0.155 ± 10%
HCB1313R1-R52K	520	416	50	13	0.155 ± 10%
HCB1313R2-R21K	210	168	45	71	0.32 ± 9.4%
HCB1313R2-R26K	260	208	45	60	0.32 ± 9.4%
HCB1313R2-R32K	320	256	45	50	0.32 ± 9.4%
HCB1313R2-R44K	440	352	45	35	0.32 ± 9.4%
HCB1313R2-R50K	500	400	45	28	0.32 ± 9.4%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



Dimensions

Part No.	A	B	C	D	E	F	G	H
R1	13.5max	13.2max	5.3max	5.0 ± 0.2	2.0 ± 0.2	8.0	5.5	14.0
R2	13.46max	13.0max	8.0max	5.0 ± 0.2	2.54 ± 0.3	7.11	7.62	13.47

NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM



HIGH CURRENT POWER INDUCTORS

HCB1413 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 300nH to 680nH
- Current range from 24A to 60A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities

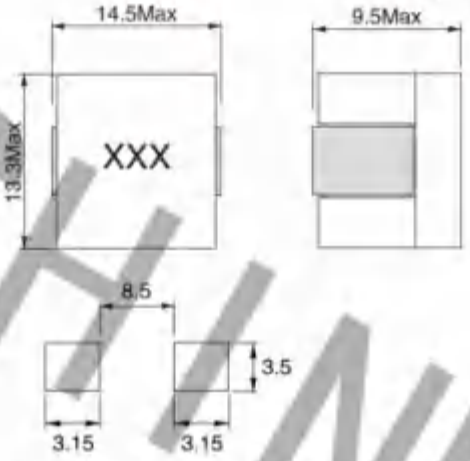
APPLICATIONS:

- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 15% @0Adc	Inductance (nH)Min @Isat	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25℃ (mΩ)
HCB1413R1-R30K	300	240	45	60	0.25 ± 7%
HCB1413R1-R36K	360	288	45	52	0.25 ± 7%
HCB1413R1-R45K	450	360	45	43	0.25 ± 7%
HCB1413R1-R53K	530	424	45	34	0.25 ± 7%
HCB1413R1-R68K	680	544	45	24	0.25 ± 7%

DIMENSIONS(mm) :



Recommended pad layout

SCHEMATIC :



NOTES:

- Test Frequency : 100KHz / 0.1V@25℃
- Irms: DC current for an approximate temperature rise of 40℃ without core loss
- Isat: Peak current for approximately 20% rolloff at +25℃
- Operating temperature: -40℃ to +125℃(ambient plus self-temperature rise)
- Storage temperature: -40℃ to +125℃

SHINHOM

Low Profile, High Current Power Inductors





Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C ; <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

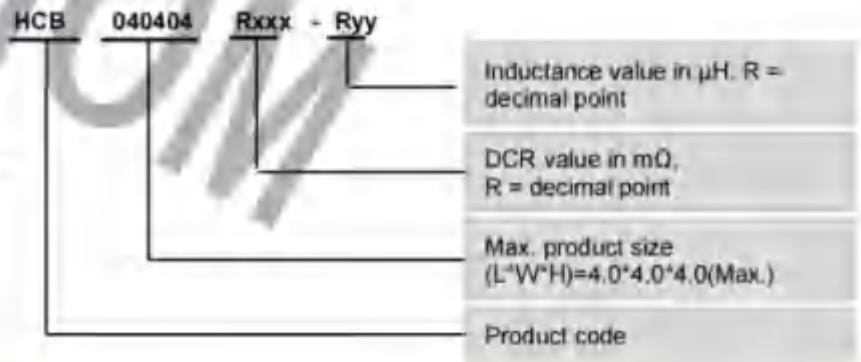
Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
HCB040404R32-R05	55	19	30	4.0	0.32
HCB040404R32-R06	65	19	26	4.0	0.32
HCB040404R32-R08	80	19	22	4.0	0.32
HCB040404R32-R10	100	19	17	4.0	0.32

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 1 Vrms,0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Measurement Equipment: WK3260B+WK3265B

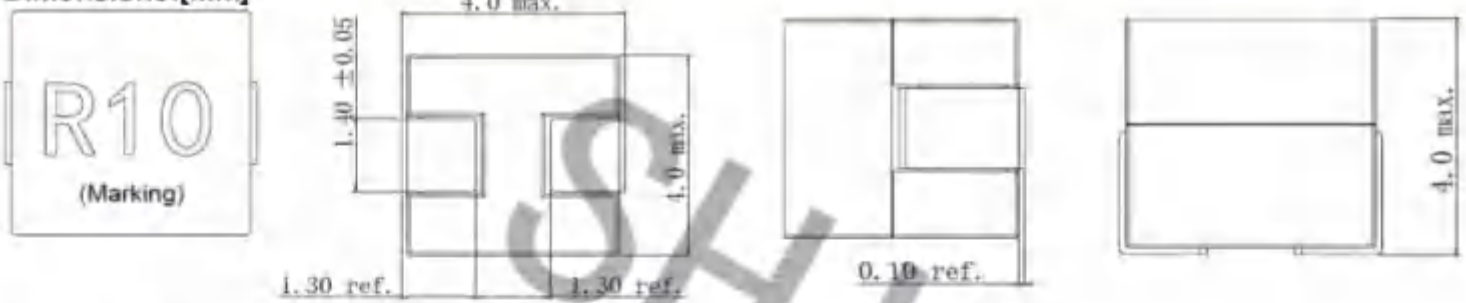
5. Part Number Definition:



SHINHOM

Technical Data HCB040404R32 Series

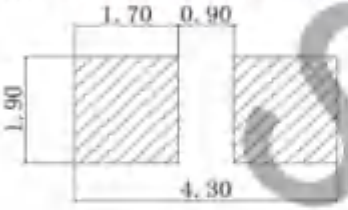
Dimensions:[mm]



Product Marking:

Part Code	Ryy
Date Code	YYWW

Recommended Pad Layout:[mm]

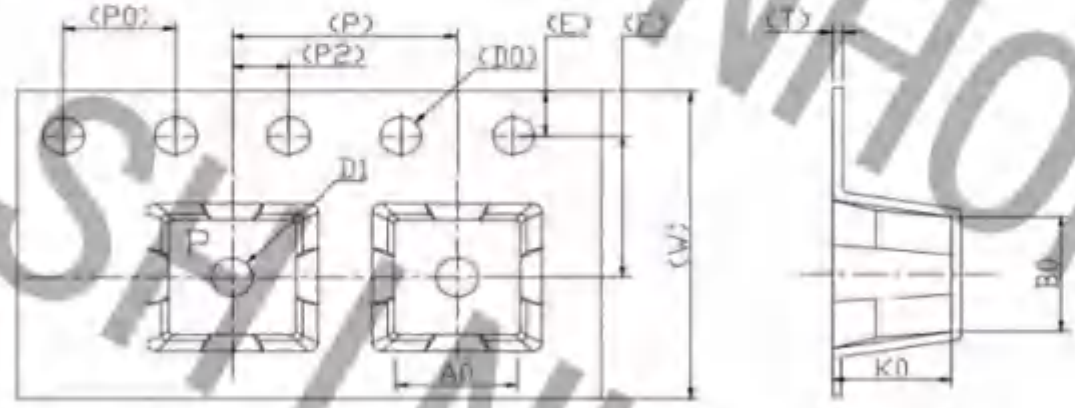


Schematic:

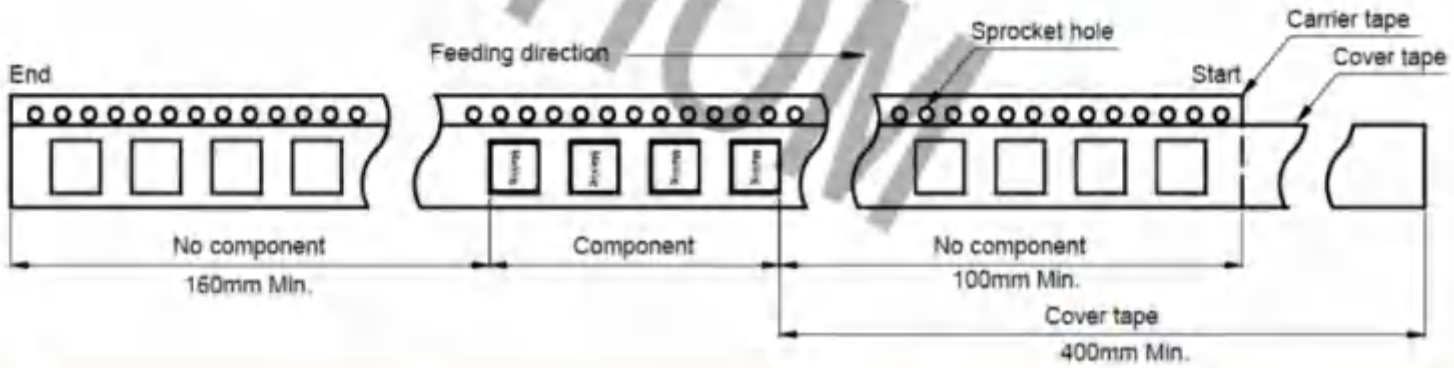


Packaging Information:[mm]

Tape Dimensions



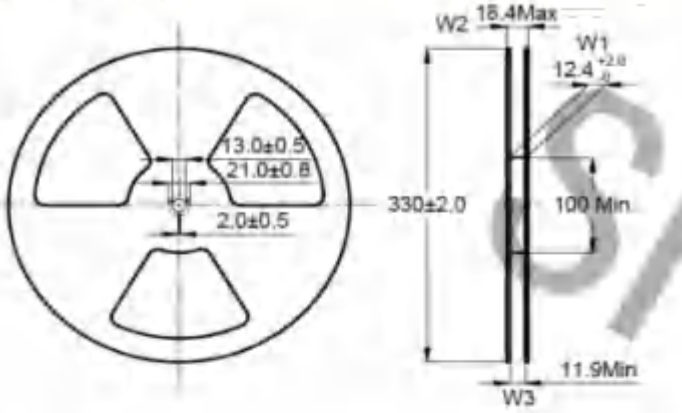
Material	A0(±0.1)	B0(±0.1)	W(±0.3)	T (±0.05)	K0(±0.1)	P(±0.1)	F(±0.1)	E(±0.1)	D0(±0.1)	P0(±0.1)	P2(±0.1)	D1(±0.1)
Polystyrene	4.50	4.50	12.00	0.40	4.20	8.00	5.50	1.75	1.50	4.00	2.00	1.50



SHINHOM

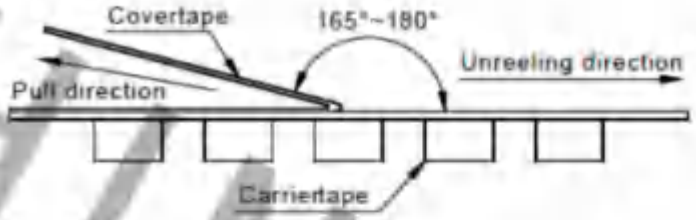
Technical Data — HCB040404R32 Series

Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
12/16/24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB040404R32 Type	1800

Recommended Reflow Profile:

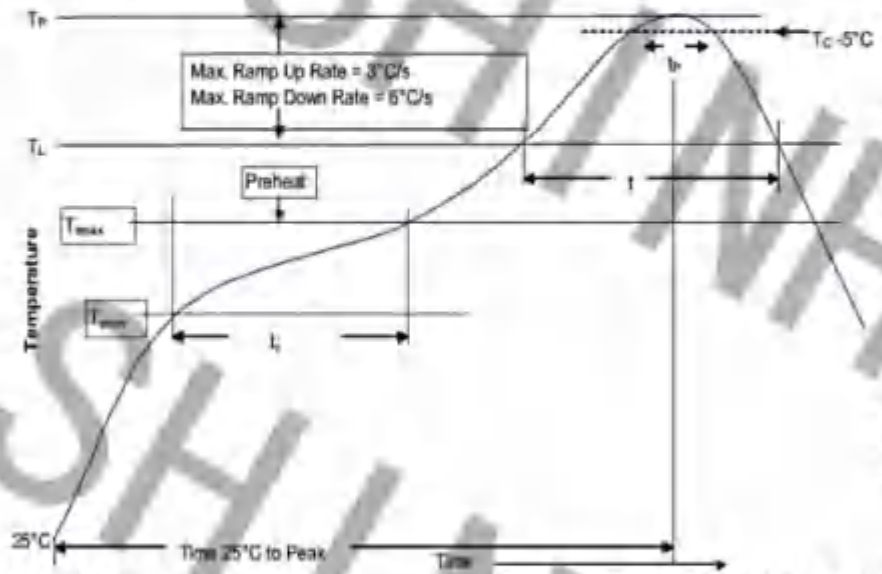


Table 1 - Standard SnPb Solder (T_C)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_C)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 ~ 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

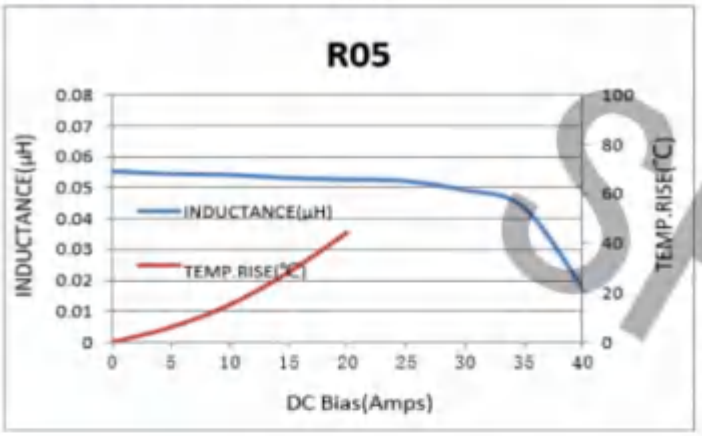
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_C)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

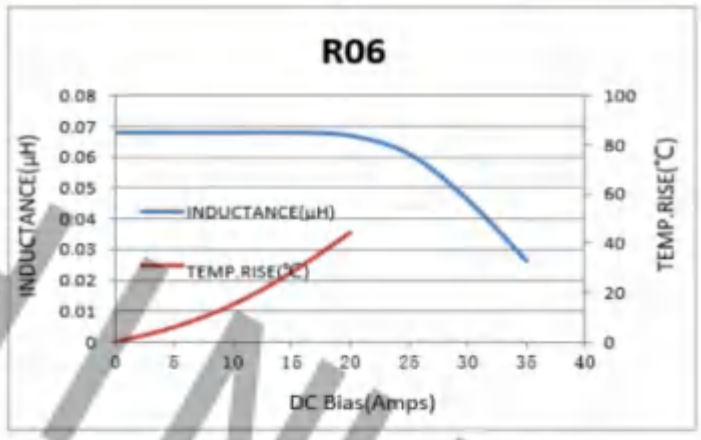
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

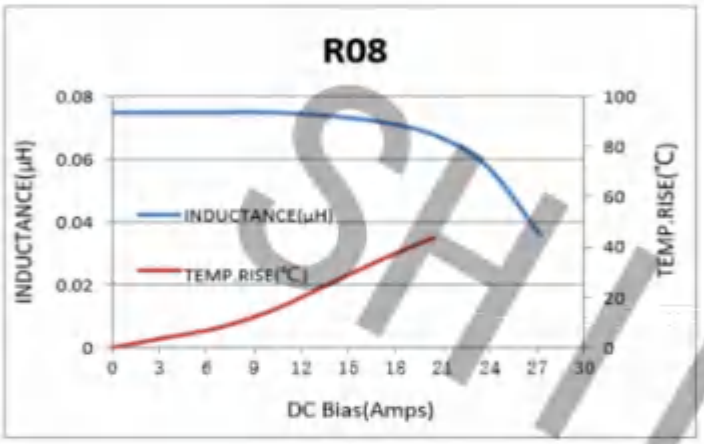
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

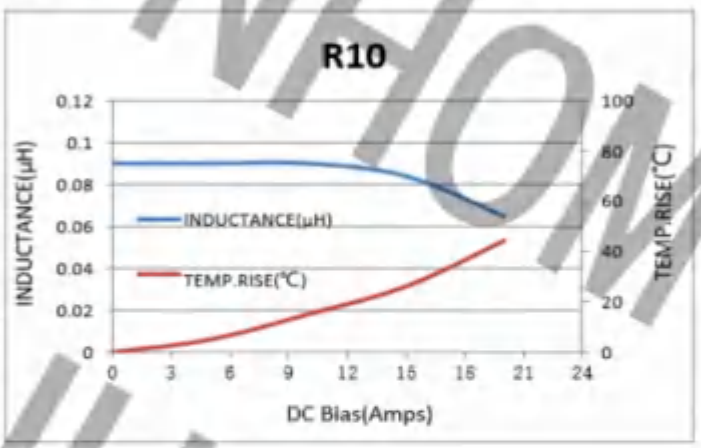
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Inductance Characteristics:









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Low Profile, High Current Power Inductors





Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C ; <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

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Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
HCB070705R32-R10	100	50	53	5.0	0.32
HCB070705R32-R12	120	50	40	5.0	0.32
HCB070705R32-R15	150	50	35	5.0	0.32
HCB070705R32-R18	180	50	28	5.0	0.32

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 0.1 Vrms,0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Measurement Equipment: WK3260B+WK3265B
5. Part Number Definition:

HCB 070705 Rxxx - Ryy

- Inductance value in µH, R = decimal point
- DCR value in mΩ, R = decimal point
- Max. product size (L*W*H)=7.0*6.8*5.0(Max.)
- Product code

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Technical Data — HCB070705R32 Series

Dimensions:[mm]



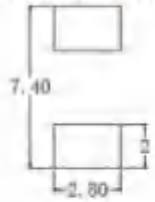
Product Marking:

Part Code	Ryy
Date Code	YYWW

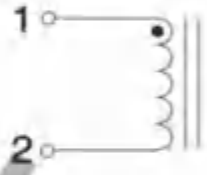
Table

Part Number	Max. Height
HCB070705R32 Type	5.0

Recommended Pad Layout:[mm]

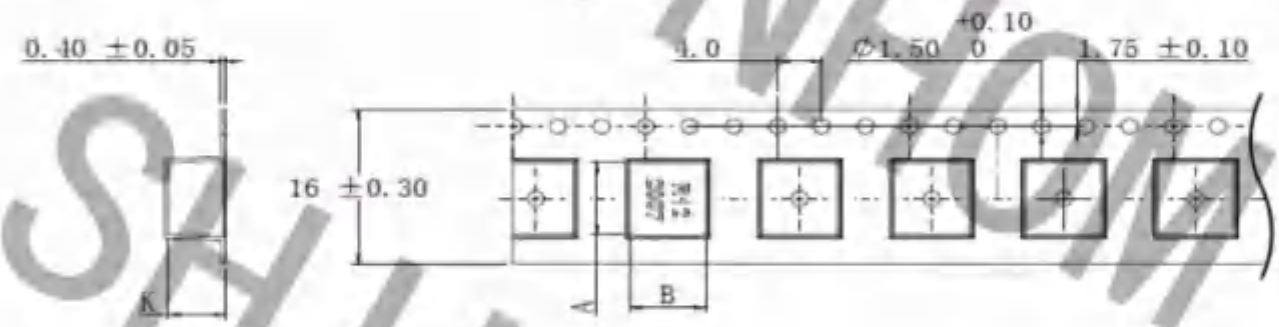


Schematic:

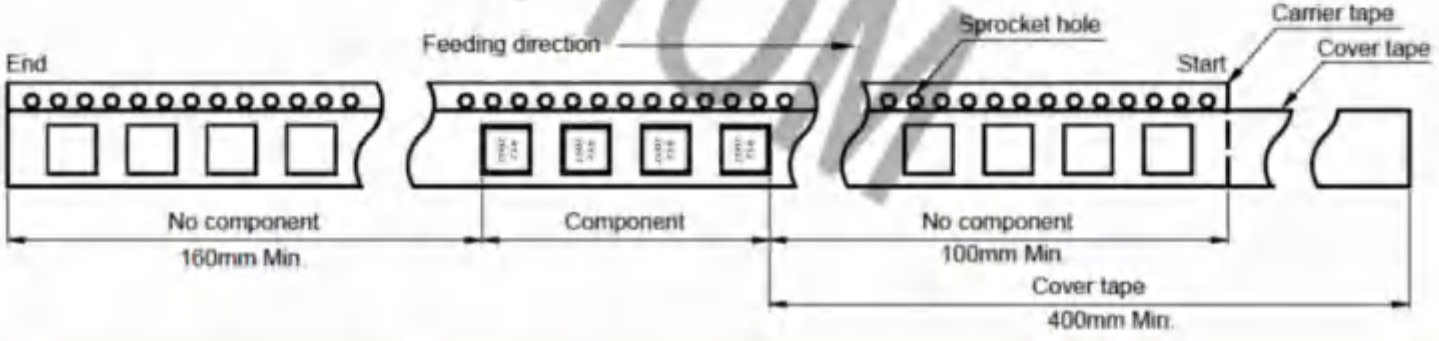


Packaging Information:[mm]

Tape Dimensions



Part Number	A	B	K
HCB070705R32 Type	7.5±0.1	6.9±0.1	5.2±0.1

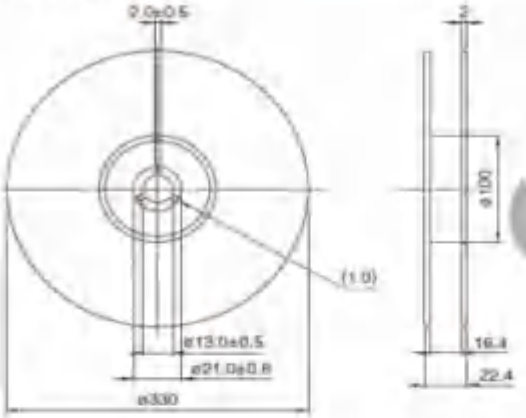


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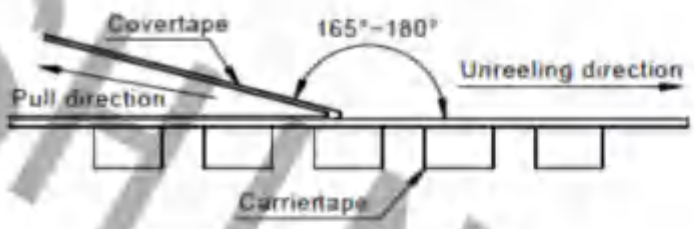
Technical Data — HCB070705R32 Series

Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
16/24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB070705R32 Type	900

Recommended Reflow Profile:

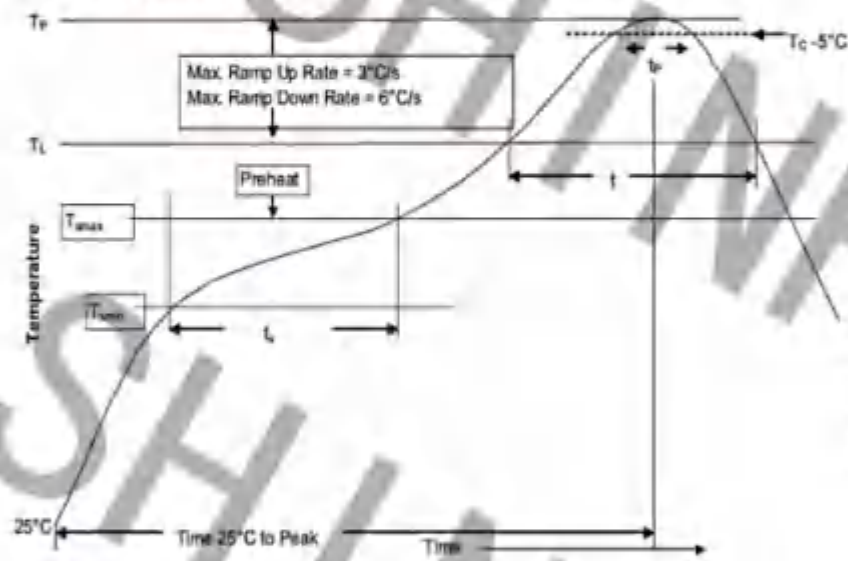


Table 1 - Standard SnPb Solder (T_C)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_C)

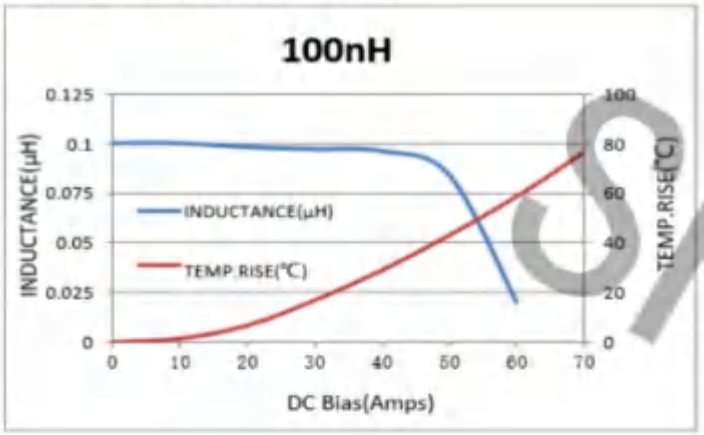
Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
>2.5mm	250°C	245°C	245°C

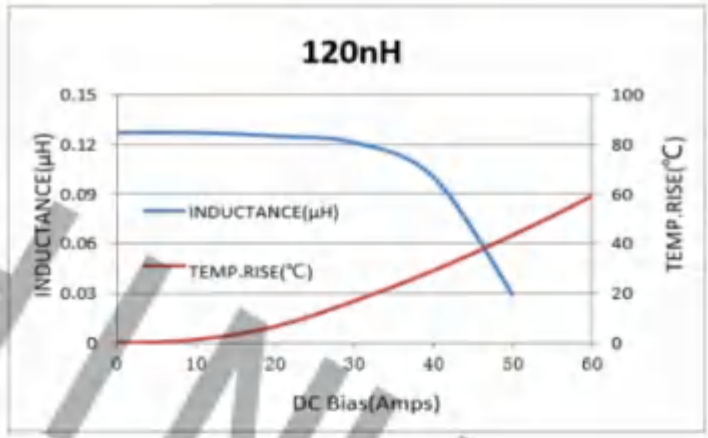
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_C)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

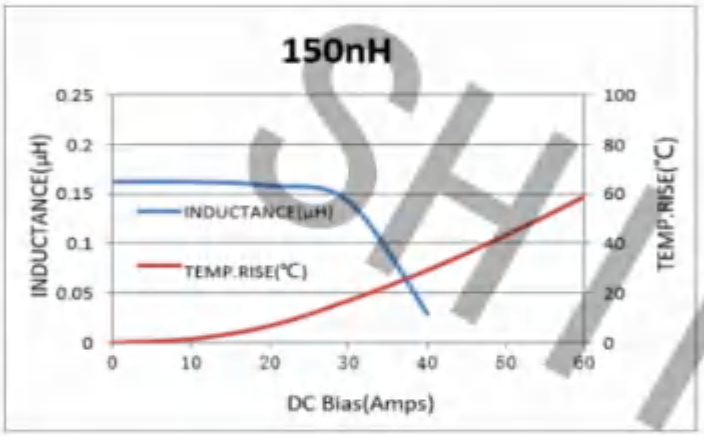
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

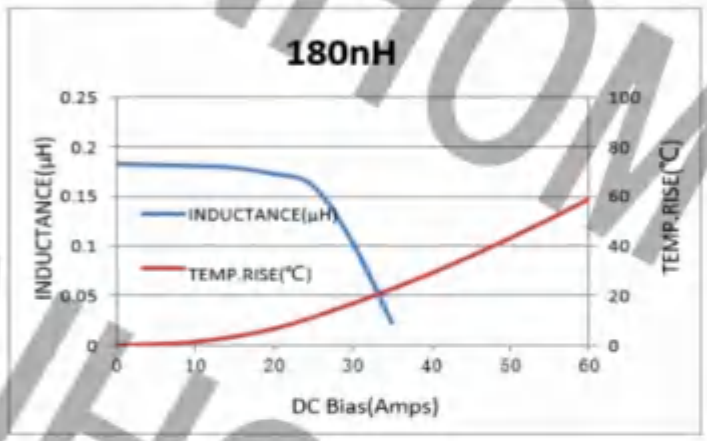
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Inductance Characteristics:









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Low Profile, High Current Power Inductors





Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C ; <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

SHINHOM

Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
HCB100612R125-R07	70	77	180	12.0	0.125
HCB100612R125-R10	100	77	125	12.0	0.125
HCB100612R125-R12	120	77	106	12.0	0.125
HCB100612R125-R15	150	77	83	12.0	0.125
HCB100612R125-R33	330	77	40	12.0	0.125

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 1 Vrms,0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Measurement Equipment: WK3260B+WK3265B

5. Part Number Definition:

HCB 100612 Rxxx - Ryy

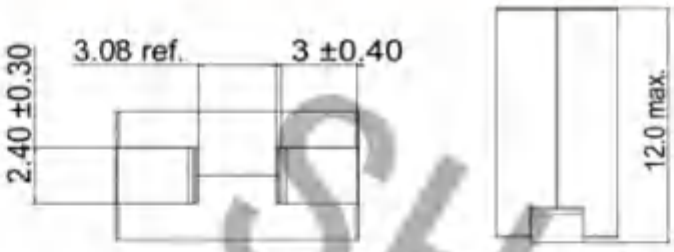
- Inductance value in µH, R = decimal point
- DCR value in mΩ, R = decimal point
- Max. product size (L*W*H)=10.0*6.0*12.0(Max.)
- Product code

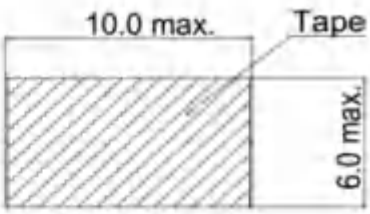
NO.8,YanTa Northern road,xi'anCity Shaanxi pro.china TEL: +86-29-87851916 FAX: +86-29-87851840 E-mail: sales@shinhom.com.cn

Technical Data — HCB100612R125 Series

Dimensions:[mm]



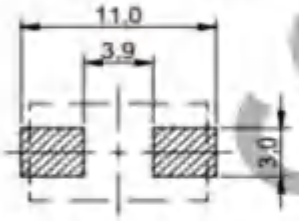




Product Marking:

Part Code	Ryy
Date Code	YYWW

Recommended Pad Layout:[mm]

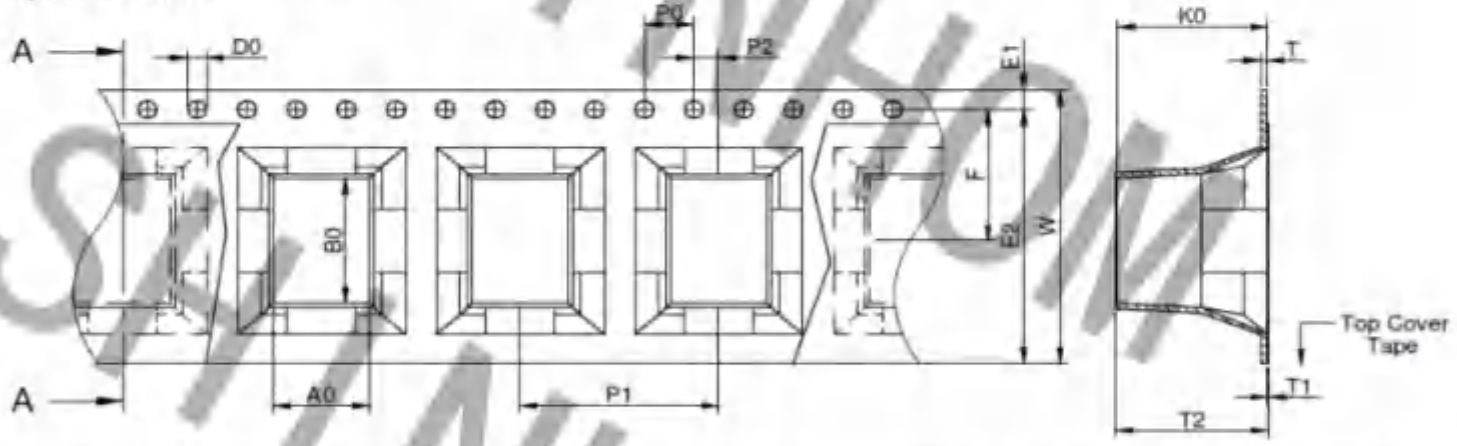


Schematic:

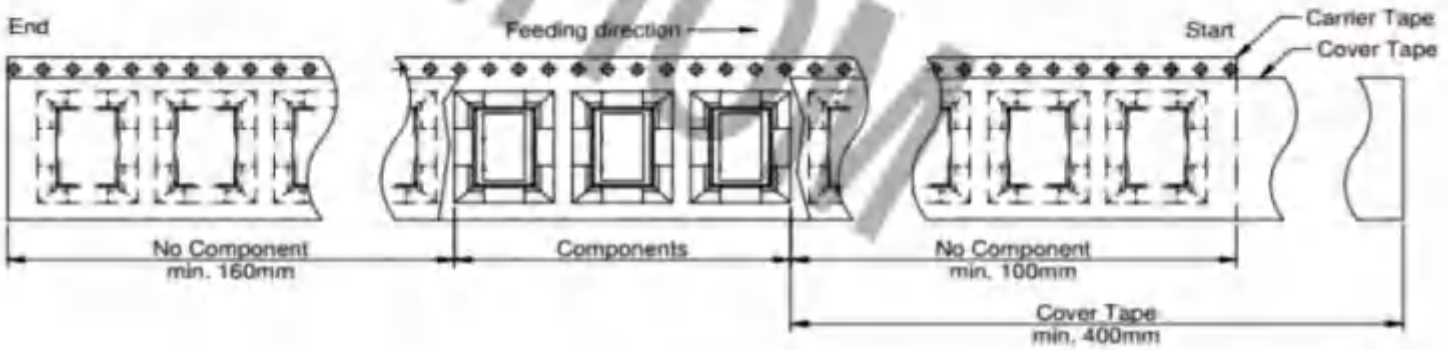


Packaging Information:[mm]

Tape Dimensions

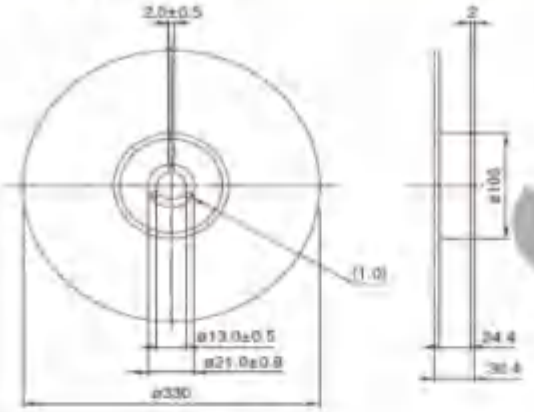


Material	A0(typ.)	B0(typ.)	W (±0.3)	T (ref.)	T1 (max.)	T2 (typ.)	P0 (±0.1)	P1 (±0.1)	P2 (±0.1)	D0 (+0.1/-0.0)	E1 (±0.1)	E2 (min.)	F (±0.1)
Polystyrene	6.20	10.20	24.00	0.50	0.10	12.50	4.00	16.00	2.00	1.50	1.75	22.25	11.50



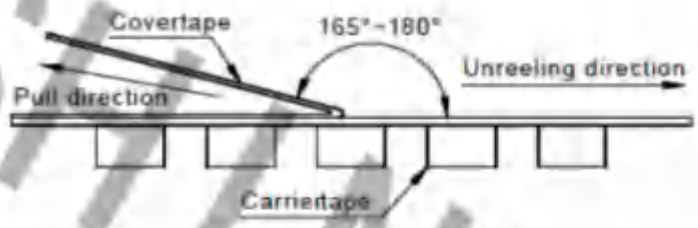
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Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
16/24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB100612R125 Type	300

Recommended Reflow Profile:

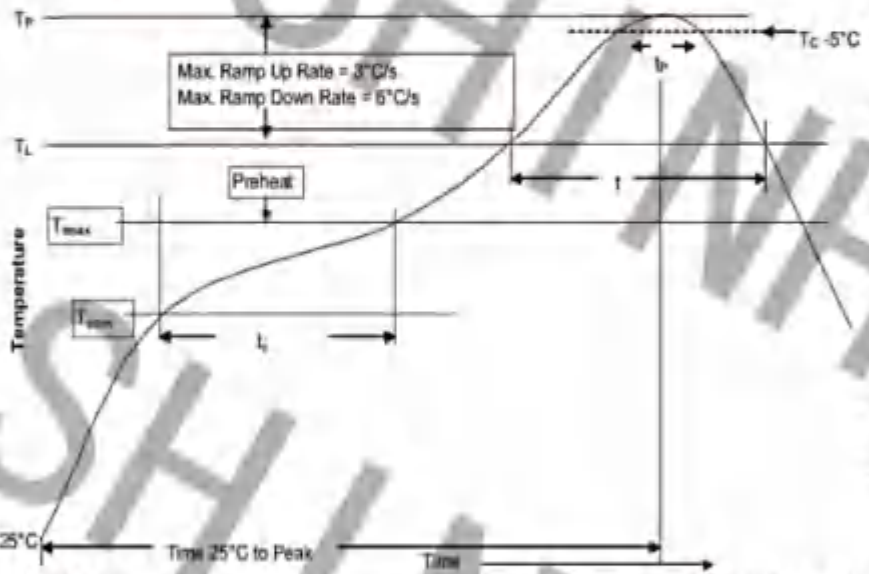


Table 1 - Standard SnPb Solder (T_c)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_c)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
≥2.5mm	250°C	245°C	245°C

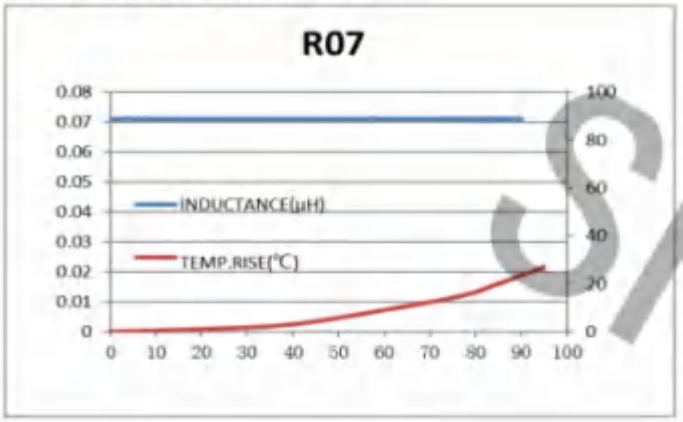
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_c)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

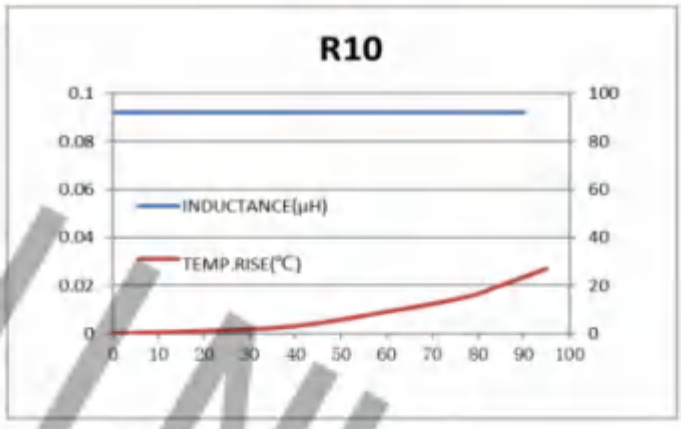
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

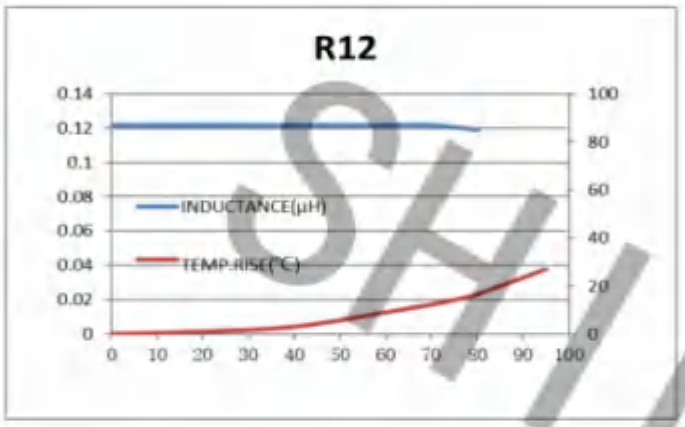
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

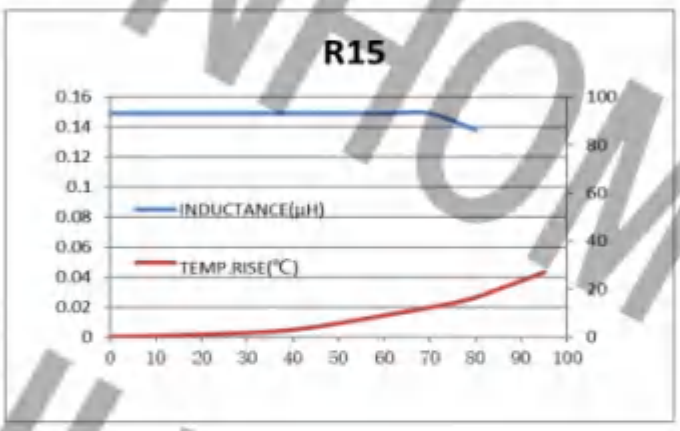
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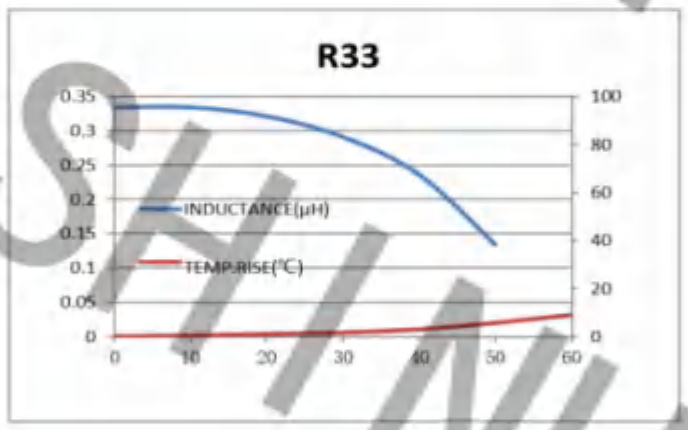
Inductance Characteristics:









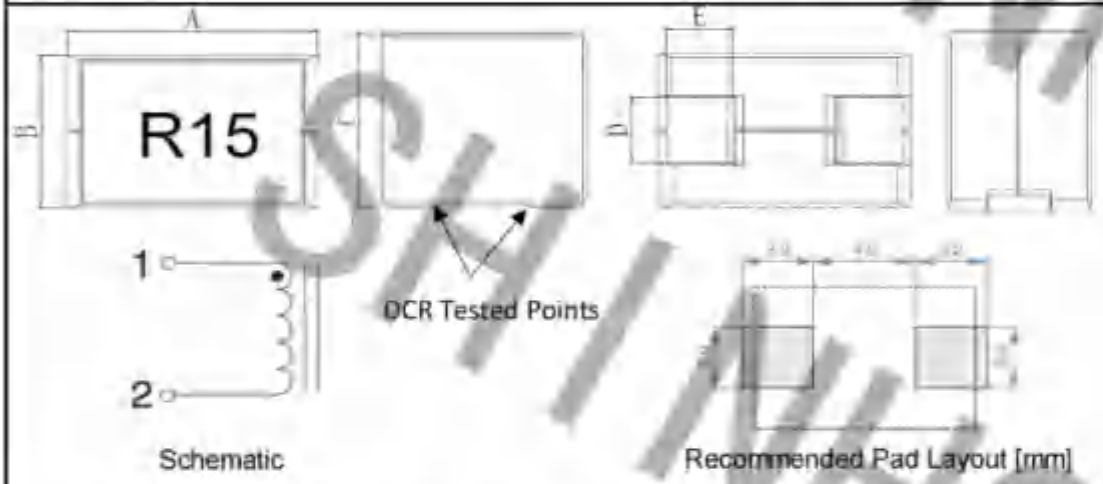


SHINHOM

LOW PROFILE, HIGH CURRENT POWER BEAD INDUCTORS

1. SHAPE AND DIMENSIONS





UNIT(mm)	
A	10.0 (Max.)
B	7.0 (Max.)
C	9.0 (Max.)
D	2.7±0.25
E	2.5±0.25

2. PRODUCT SPECIFICATIONS

Part Number	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Width[4] (max.)	DCR(mΩ) @ +20 °C
HCB100709R18-R10	100	70	120	7.0	0.18±10%
HCB100709R18-R12	120	70	110	7.0	0.18±10%
HCB100709R18-R15	150	70	90	7.0	0.18±10%
HCB100709R18-R18	180	70	73	7.0	0.18±10%
HCB100709R18-R22	220	70	57	7.0	0.18±10%
HCB100709R18-R33	330	70	39	7.0	0.18±10%
HCB100709R18-R40	400	70	30	7.0	0.18±10%

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 1 Vrms, 0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Width: Product shape dimensions of width for different P/N

Remark: Measurement Equipment: WK3260B+WK3265B

3. TEMPERATURE RATING

Operating Temperature: -40°C to +125°C (Ambient plus self temperature rise)

Storage Temperature: In Original Packaging, <40°C ; <75%RH

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4. PRODUCT IDENTIFICATION

HCB	100709	RXX	-	RXX
1	2	3		4

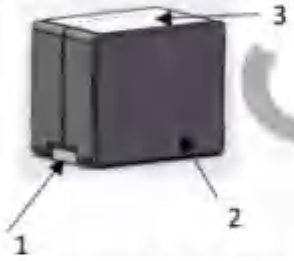
1: Series Name
2: Product Dimensions
3: DCR Value (Ex. R18=0.18mΩ)
4: Inductance value (Ex. R15=150nH)

5. PRODUCT MARKING



RXX: Product Inductance Value (Ex. R15=150nH)
PI Label: Printed text

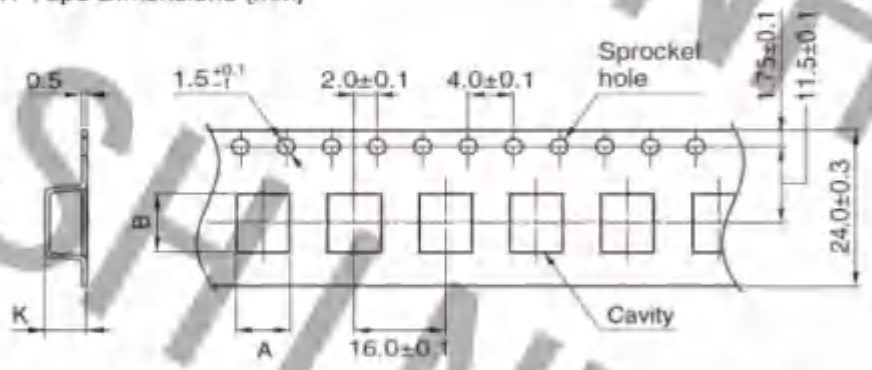
6. CONSTRUCTION AND MATERIAL LIST



No.	Part	Material
1	Clip	C1100
2	Core	Ferrite
3	Label	PI

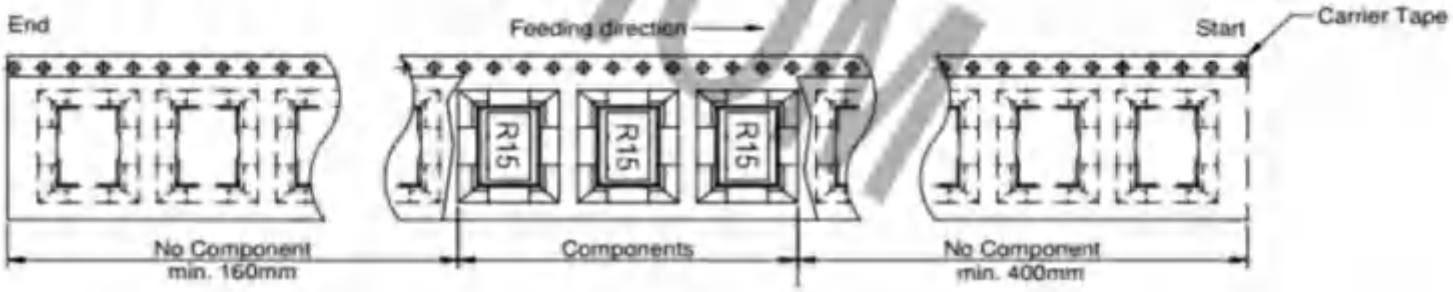
7.PACKAGING INFORMATION

7.1 Tape Dimensions (mm)



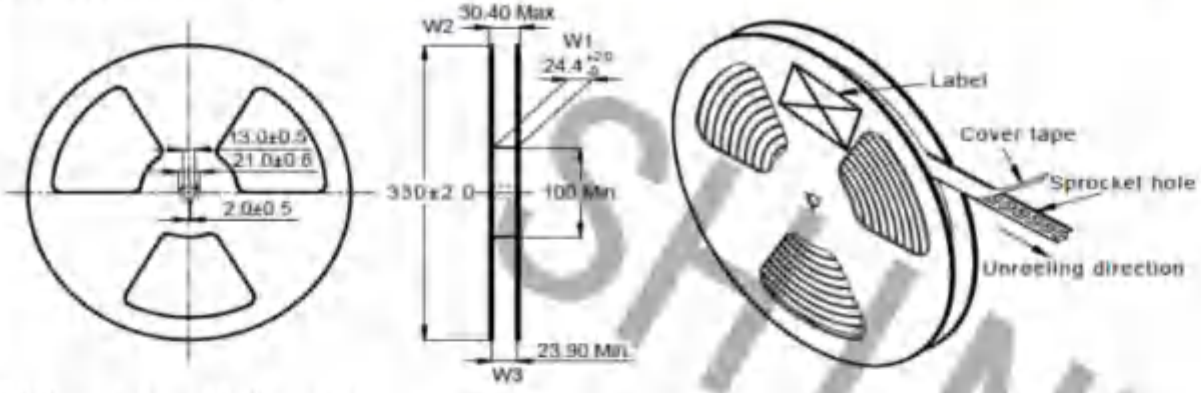
P/N	A(mm)	B(mm)	K(mm)
HCB100709R18 SERIES	7.1±0.1	10.2±0.1	9.2±0.1

7.2 Product Packing in Tape



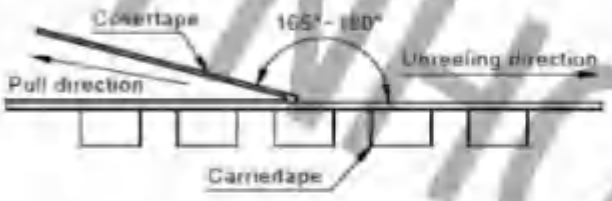
SHINHOM

7.3 Reel Dimensions (mm)



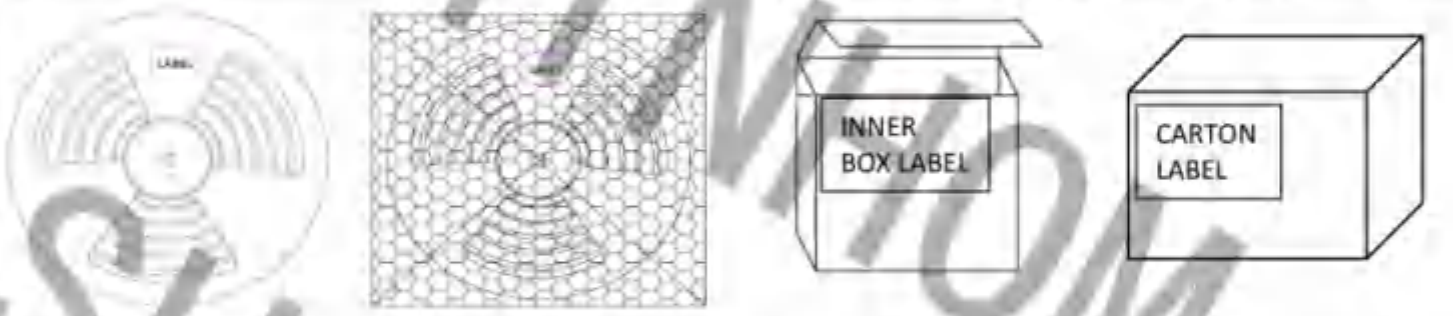
7.4 Cover tape peel off condition

Tape Width	Tape Type	Peel-off Force	Peel Speed
24mm	Heat-sealing	0.1~1.3N	300±10mm/M



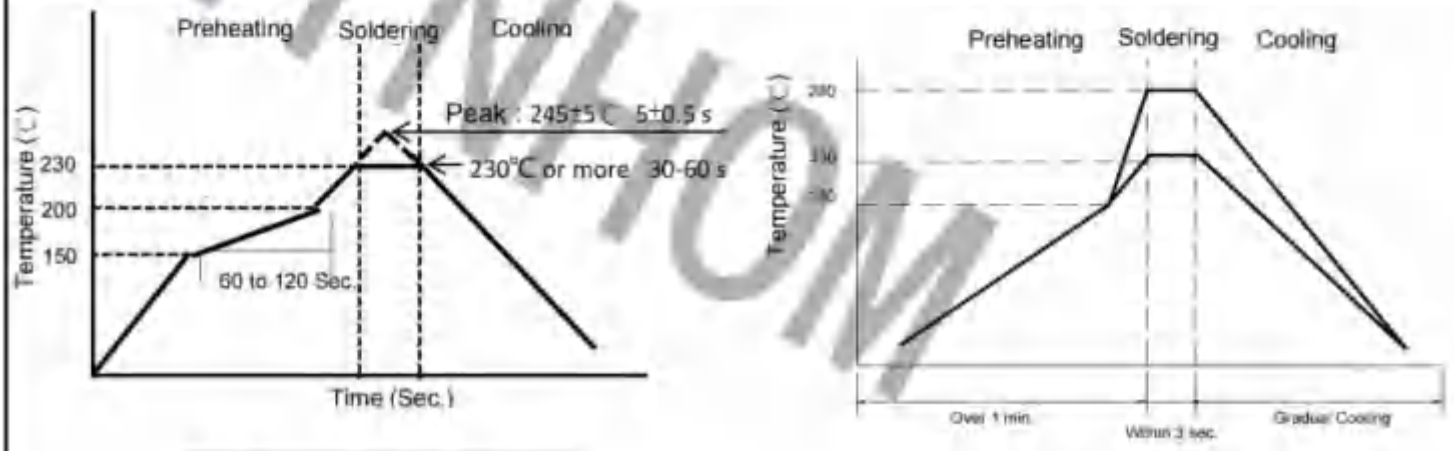
7.5 Packing Quantity

Part Number	Chips/Reel	Chips/Inner Box	Chips/Carton
HCB100709R18 SERIES	400	800 (2 reels/ PE bag / inner box)	2400 (3 inner boxes/ Carton)



REEL 2 REELS IN A PE BAG 1 PE BAG IN A INNER BOX 3 INNER BOXES IN A CARTON

8. RECOMMENDED SOLDERING PROFILE

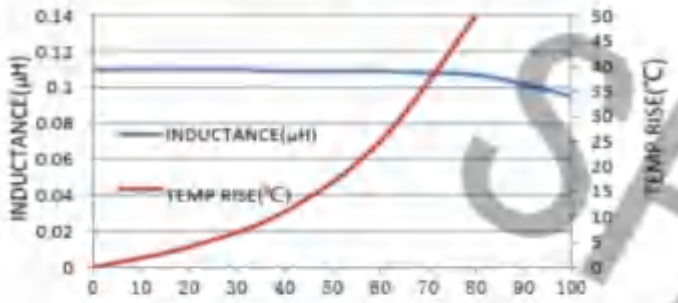


REFLOW SOLDERING HAND SOLDERING

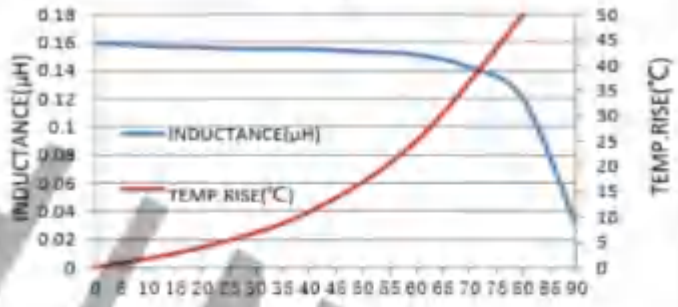
SHINHOM

9. INDUCTANCE CHARACTERISTICS

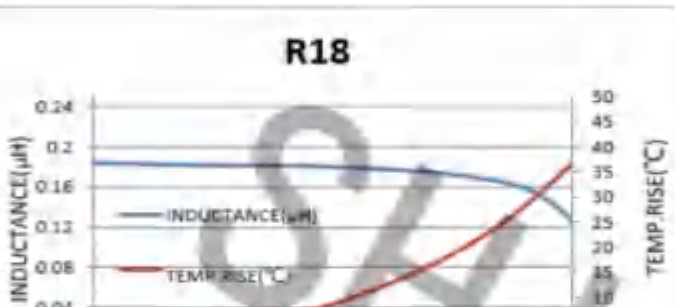
R12



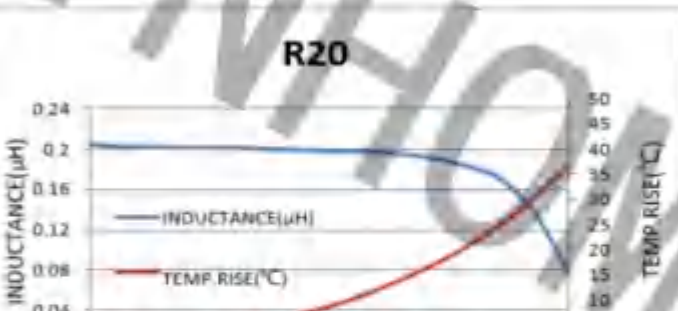
R15



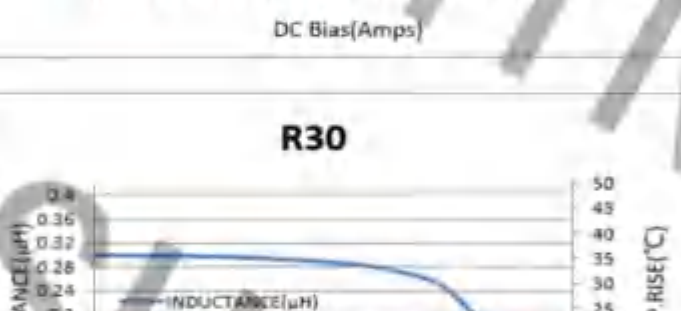
R18



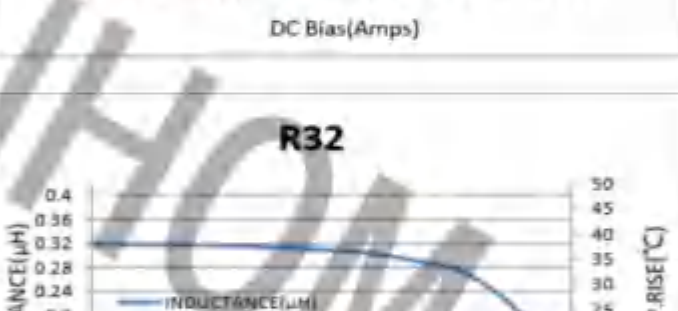
R20



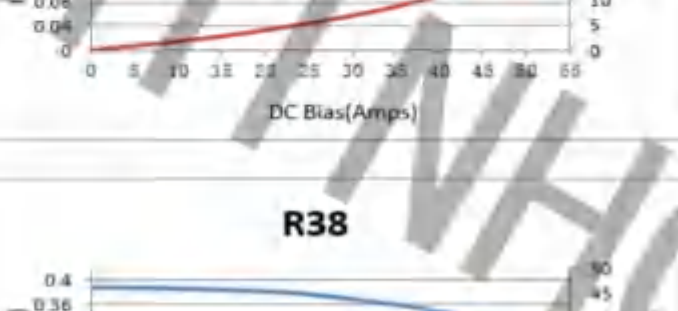
R30



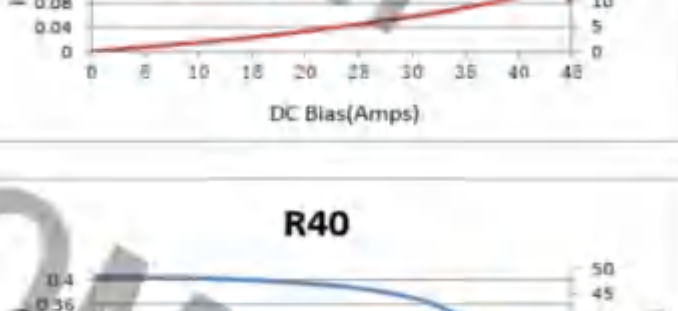
R32



R38

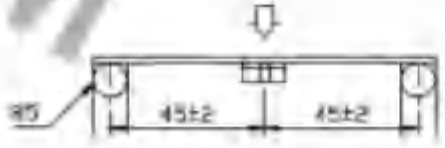


R40



SHINHOM

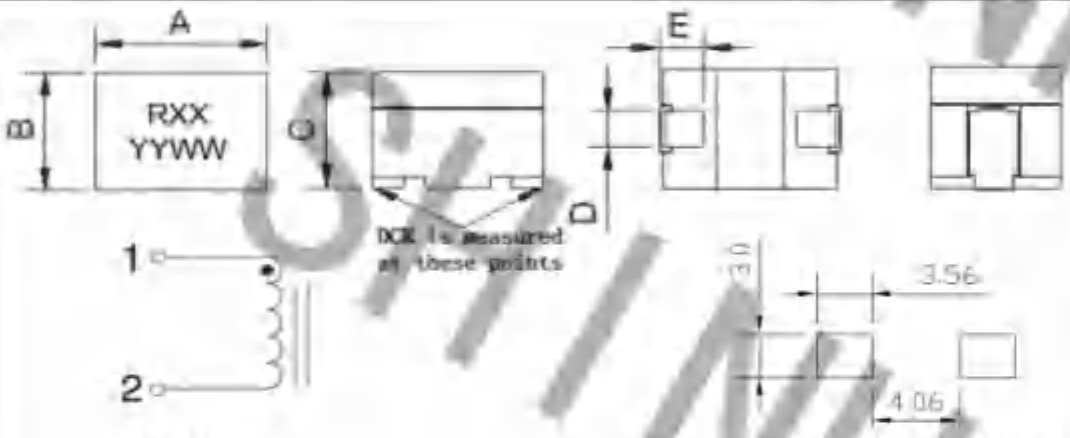
10. RELIABILITY TEST SPECIFICATIONS FOR POWER BEAD INDUCTORS

Item	Specification	Test Conditions
Operating temperature range	-40℃ ~ +125℃	
Storage temperature and humidity range	25±5℃ , 70% RH Max (In Original Packaging: <40℃ , <75%RH)	
Solderability	More than 90% of the terminal electrode should be covered with solder	Soldering Temperature for Pb Product: 230± 5℃ Soldering Temperature for Pb-free Product: 260±5 ℃ Dip Time: 2~3s
Solder Heat Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	Reflow Temperature: Dip Type:265± 5℃ SMD Type:245± 5℃ Solder Resistance Time: > 10s
Heat resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in 125±5℃ and 2 hour drying under normal condition.
Cold resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in -40±5℃ and 2 hour drying under normal condition.
Thermal shock	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	Firstly, test under -40℃±5℃ and 30±2 minutes, then put 3±1minutes under room temperature, and test under 125℃±5℃ and 30±2 minutes, finally put 3±1minutes under room temperature, take this as one cycle (each temperature switching must be finished with 3 minutes). after 100 cycles and cooling 1H to room temperature before measuring L
Humidity Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in 40±2℃ and 90 to 95% humidity and 2 hour drying under normal condition.
Vibration Test	Inductance within ±5% of initial value and appearance shall not break.	After vibration for 1hour, in each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.
Drop Test	Inductance within ±5% of initial value and appearance shall not break.	Drop the packaged products on the concrete floor from 100cm height, one corner and three edges and six faces need to do free dropping twice for each of them
Salt Spray Test	Inductance within ±5% of initial value and appearance shall not break.	Test Temperature is 35℃ and Pressure Barrel Temperature is 47℃. After 24hrs to take it out and wash with clear water and cooling 1H~2H before visual cheking
Substrate Bending	The terminal electrode and the ferrite must not be damaged	The sample shall be soldered onto the printed circuit board as below figure and a 10N load applied until the figure in the arrow direction. There shall be direction is made approximately 2mm (keep time 30 seconds) 

LOW PROFILE, HIGH CURRENT POWER BEAD INDUCTORS

1. SHAPE AND DIMENSIONS





Schematic

Recommended Pad Layout [mm]

UNIT(mm)	
A	10.0 (Max.)
B	8.0 (Max.)
C	8.0 (Max.)
D	2.2±0.25
E	2.5±0.25



2. PRODUCT SPECIFICATIONS

Part Number	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height[4] (max.)	DCR(mΩ) @ +20 °C
HCB100808AR18-R12	120	70	94	8.0	0.18±6%
HCB100808AR18-R15	150	70	79	8.0	0.18±6%
HCB100808AR18-R18	180	70	65	8.0	0.18±6%
HCB100808AR18-R20	200	70	59	8.0	0.18±6%
HCB100808AR18-R30	300	70	38	8.0	0.18±6%
HCB100808AR18-R32	320	70	35	8.0	0.18±6%
HCB100808AR18-R38	380	70	28	8.0	0.18±6%
HCB100808AR18-R40	400	70	26	8.0	0.18±6%

Notes:

1. Open Circuit Inductance (OCL) Test Parameter: 100 kHz, 1 Vrms, 0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Height: Product shape dimensions of height for different P/N

Remark: Measurement Equipment: WK3260B+WK3265B

3. TEMPERATURE RATING

Operating Temperature: -40°C to +125°C (Ambient plus self temperature rise)

Storage Temperature: In Original Packaging, <40°C ; <75%RH

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4. PRODUCT IDENTIFICATION

HCB	100808	A	RXX	-	RXX
1	2	3	4		5

1: Series Name
2: Product Dimensions
3: Distinguish Code
4: DCR Value (Ex. R18=0.18mΩ)
5: Inductance value (Ex. R15=150nH)

5. PRODUCT MARKING

RXX
YYWW

RXX: Product Inductance Value (Ex. R15=150nH)

YYWW: Manufactured Datecode (Ex. 2105=2021Year, 05 Week)

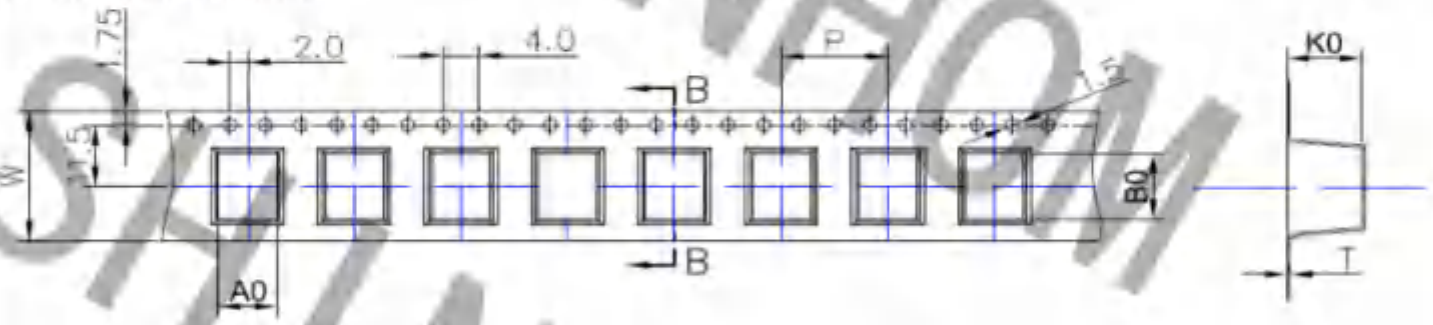
6. CONSTRUCTION AND MATERIAL LIST



No	Part	Material
1	Clip	C1100
2	Core	Ferrite

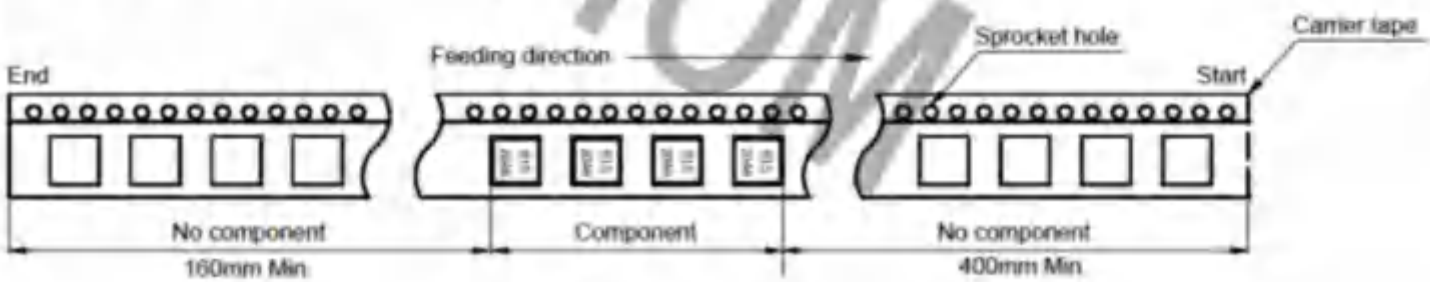
7.PACKAGING INFORMATION

7.1 Tape Dimensions (mm)



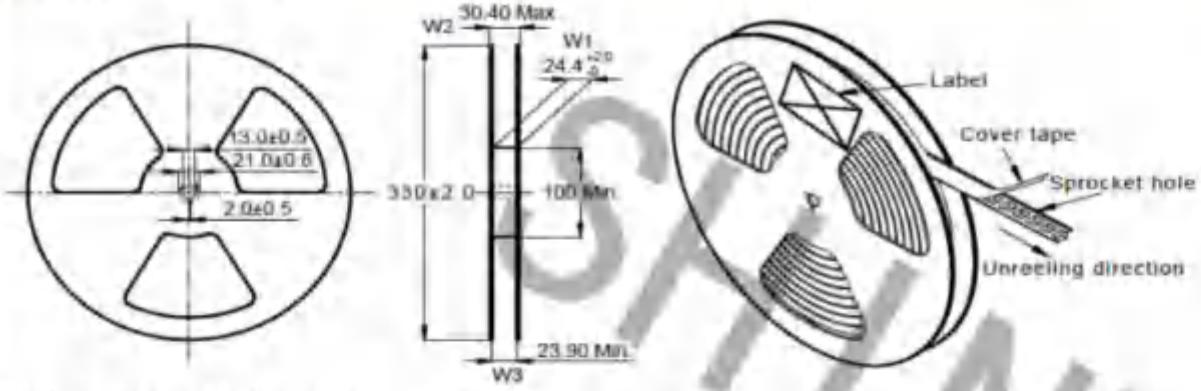
P/N	A0(mm)	B0(mm)	K0(mm)	P(mm)	T(mm)	W(mm)
HCB100808AR18 SERIES	8.2±0.1	10.2±0.1	8.2±0.1	12.0±0.1	0.4±0.05	24.0±0.3

7.2 Product Packing in Tape



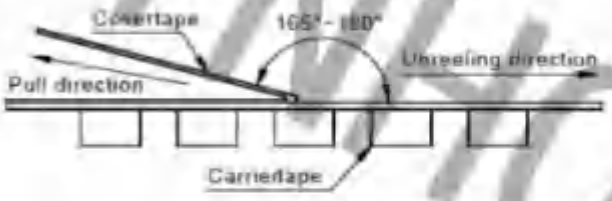
SHINHOM

7.3 Reel Dimensions (mm)



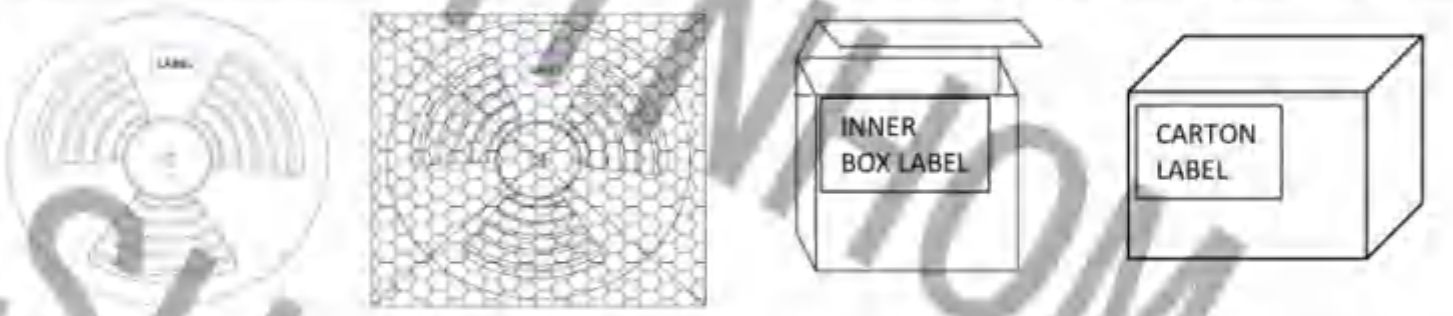
7.4 Cover tape peel off condition

Tape Width	Tape Type	Peel-off Force	Peel Speed
24mm	Heat-sealing	0.1~1.3N	300±10mm/M



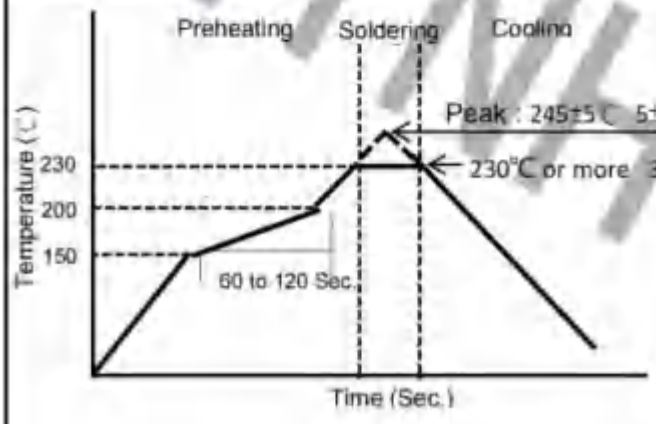
7.5 Packing Quantity

Part Number	Chips/Reel	Chips/Inner Box	Chips/Carton
HCB100808AR18 SERIES	600	1200 (2 reels/ PE bag / inner box)	3600 (3 inner boxes/ Carton)

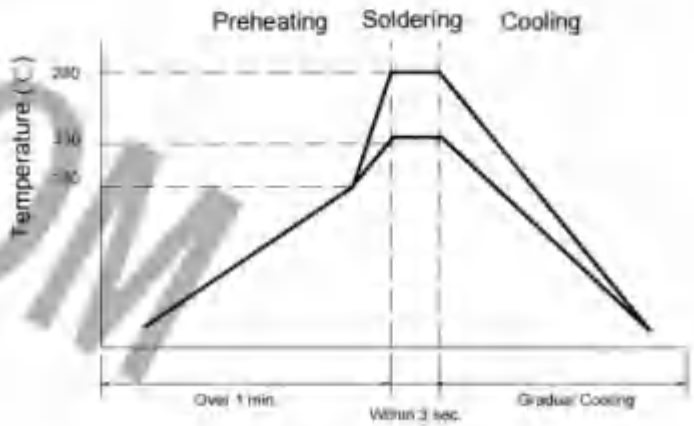


REEL 2 REELS IN A PE BAG 1 PE BAG IN A INNER BOX 3 INNER BOXES IN A CARTON

8. RECOMMENDED SOLDERING PROFILE



REFLOW SOLDERING

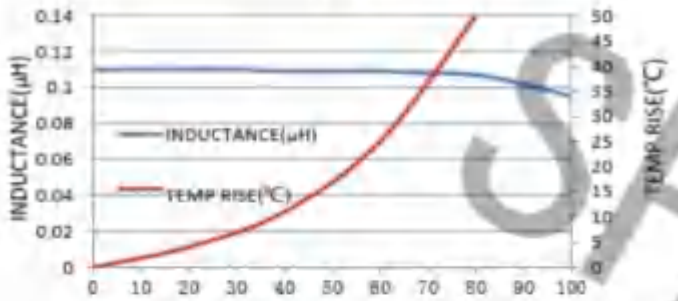


HAND SOLDERING

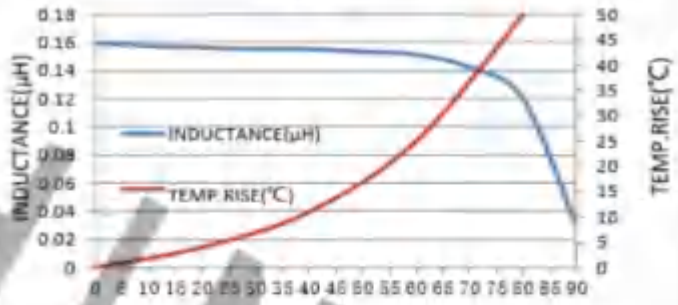
SHINHOM

9. INDUCTANCE CHARACTERISTICS

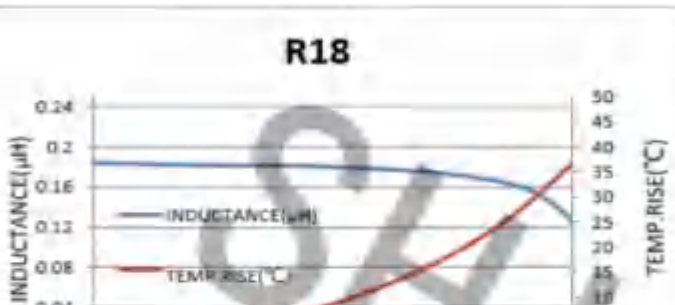
R12



R15



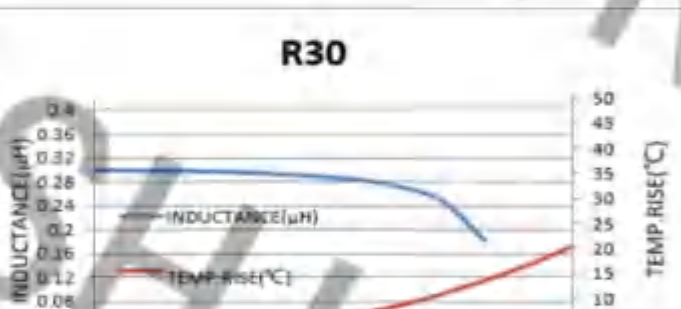
R18



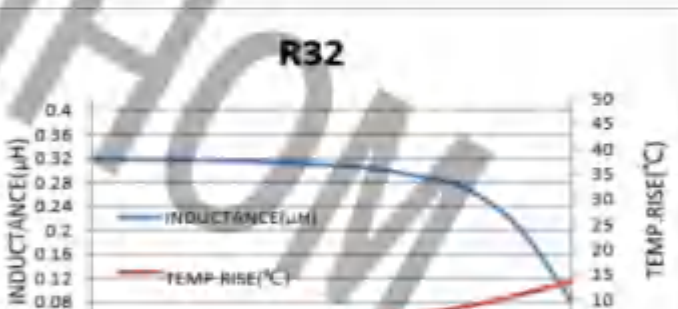
R20



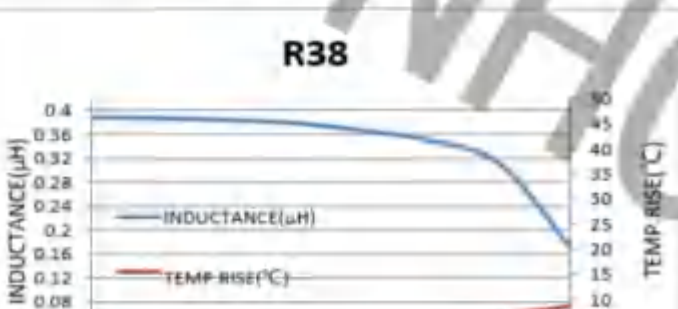
R30



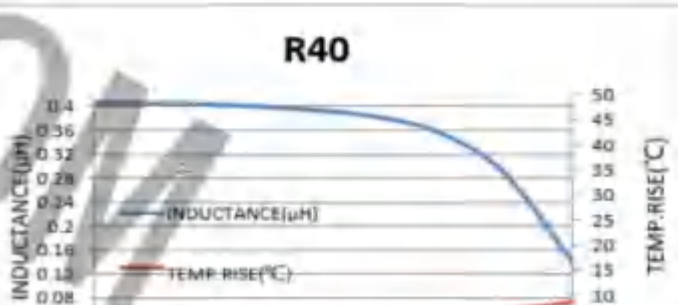
R32



R38

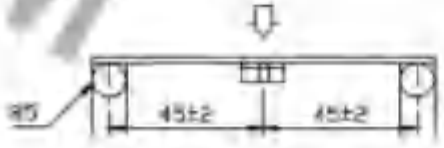


R40



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10. RELIABILITY TEST SPECIFICATIONS FOR POWER BEAD INDUCTORS

Item	Specification	Test Conditions
Operating temperature range	-40℃ ~ +125℃	
Storage temperature and humidity range	25±5℃ , 70% RH Max (In Original Packaging: <40℃ , <75%RH)	
Solderability	More than 90% of the terminal electrode should be covered with solder.	Soldering Temperature for Pb Product: 230± 5℃ Soldering Temperature for Pb-free Product: 260±5 ℃ Dip Time: 2~3s
Solder Heat Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	Reflow Temperature: Dip Type:265± 5℃ SMD Type:245± 5℃ Solder Resistance Time: ≥ 10s
Heat resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in 125±5℃ and 2 hour drying under normal condition.
Cold resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in -40±5℃ and 2 hour drying under normal condition.
Thermal shock	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	Firstly, test under -40℃±5℃ and 30±2 minutes, then put 3±1minutes under room temperature, and test under 125℃±5℃ and 30±2 minutes, finally put 3±1minutes under room temperature, take this as one cycle (each temperature switching must be finished with 3 minutes). after 100 cycles and cooling 1H to room temperature before measuring L.
Humidity Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in 40±2℃ and 90 to 95% humidity and 2 hour drying under normal condition.
Vibration Test	Inductance within ±5% of initial value and appearance shall not break.	After vibration for 1hour, in each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.
Drop Test	Inductance within ±5% of initial value and appearance shall not break.	Drop the packaged products on the concrete floor from 100cm height, one corner and three edges and six faces need to do free dropping twice for each of them.
Salt Spray Test	Inductance within ±5% of initial value and appearance shall not break.	Test Temperature is 35℃ and Pressure Barrel Temperature is 47℃. After 24hrs to take it out and wash with clear water and cooling 1H~2H before visual cheking
Substrate Bending	The terminal electrode and the ferrite must not be damaged.	The sample shall be soldered onto the printed circuit board as below figure and a 10N load applied until the figure in the arrow direction. There shall be direction is made approximately 2mm (keep time 30 seconds) 

Low Profile, High Current Power Inductors



Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C , <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height[4] (max.)	DCR(mΩ) typical @ +20 °C
HCB100808R18-R10	100	74	105	8.2	0.18
HCB100808R18-R12	120	74	105	8.1	0.18
HCB100808R18-R15	150	74	88	8.1	0.18
HCB100808R18-R17	170	74	80	8.1	0.18
HCB100808R18-R22	220	74	55	8.0	0.18
HCB100808R18-R26	260	74	49	8.0	0.18
HCB100808R18-R32	320	74	45	8.0	0.18

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 0.1 Vrms, 0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Height: Product shape dimensions of height for different P/N
Remark: Measurement Equipment: WK3260B+WK3265B

5. Part Number Definition:

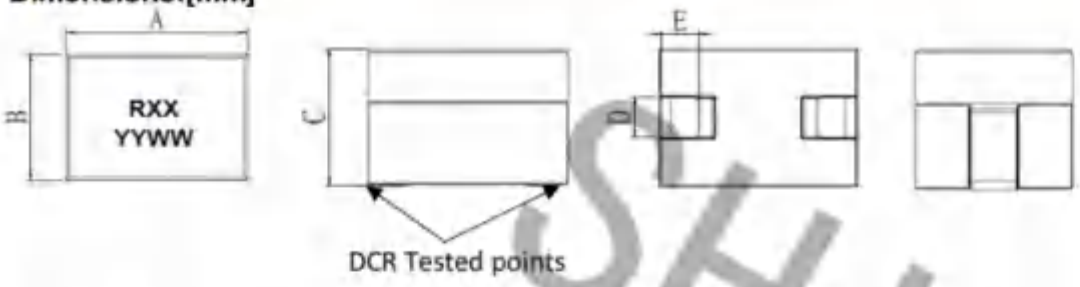
HCB 100808 Rxxx - Ryy

- Ryy: Inductance value in µH, R = decimal point
- Rxxx: DCR value in mΩ, R = decimal point
- 100808: Max. product size (L*W*H)=10.6*8.0*8.2(Max.)
- HCB: Product code

SHINHOM

Technical Data — HCB100808R18 Series

Dimensions:[mm]



TYPE	SIZE
A	10.6 (Max.)
B	8.0 (Max.)
C	See Height column in table of Product Specifications
D	2.25 (Typ.)
E	2.2 (Typ.)

Product Marking:

RXX	Product Inductance Value(Ex. R15=150nH)
YYWW	Manufactured Datecode (Ex. 2105=2021Year ; 05 Week)

Recommended Pad Layout:[mm]

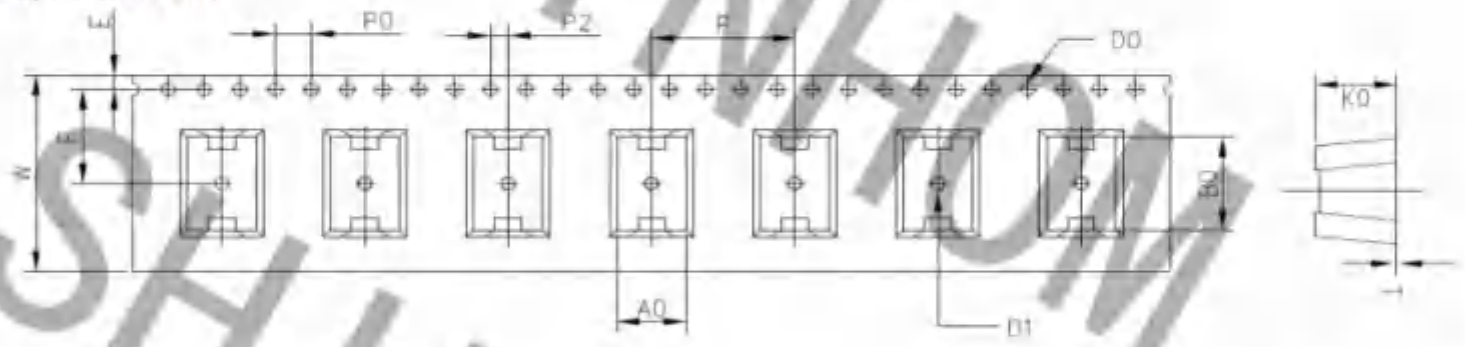


Schematic:

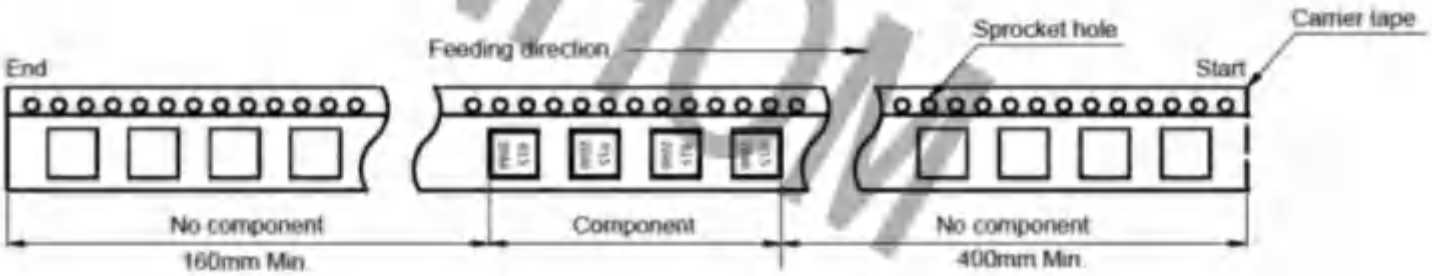


Packaging Information:[mm]

Tape Dimensions

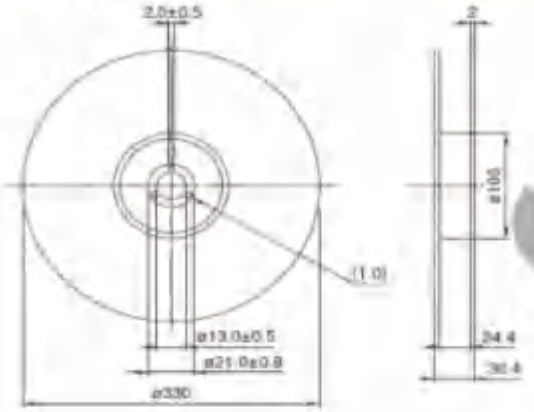


Material	A0(±0.1)	B0(±0.1)	W (±0.3)	T (±0.05)	K0(±0.1)	P(±0.1)	F(±0.1)	E(±0.1)	D0(±0.1)	P0(±0.1)	P2(±0.1)	D1(±0.1)
Polystyrene	8.40	12.20	24.00	0.35	8.50	16.00	11.50	1.75	1.50	4.00	2.00	1.50



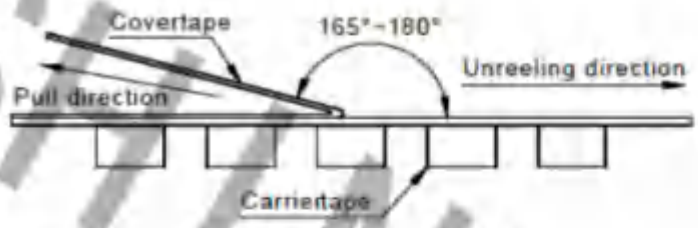
SHINHOM

Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB100808R18 SERIES	400

Recommended Reflow Profile:

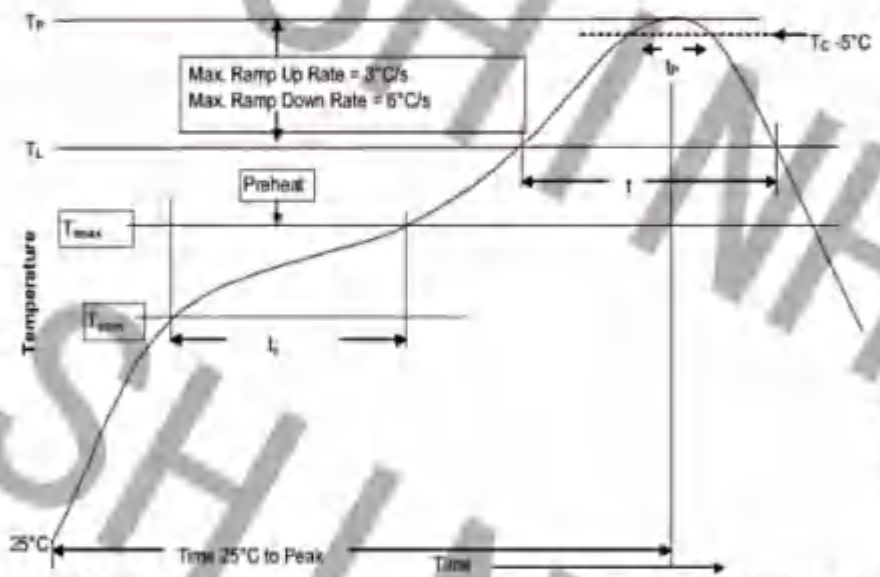


Table 1 - Standard SnPb Solder (T_C)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm)	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_C)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
≥2.5mm	250°C	245°C	245°C

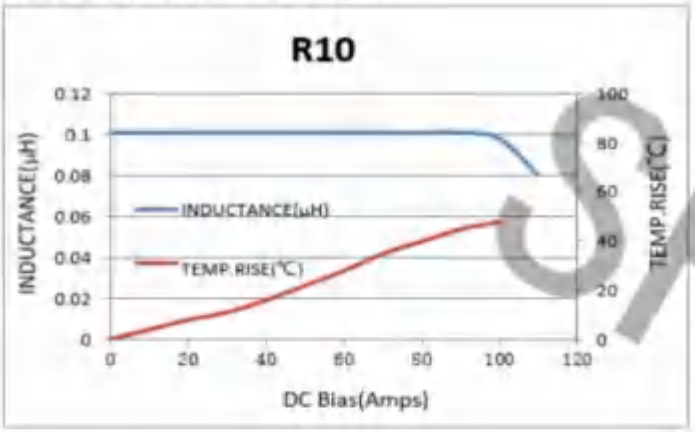
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_c)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

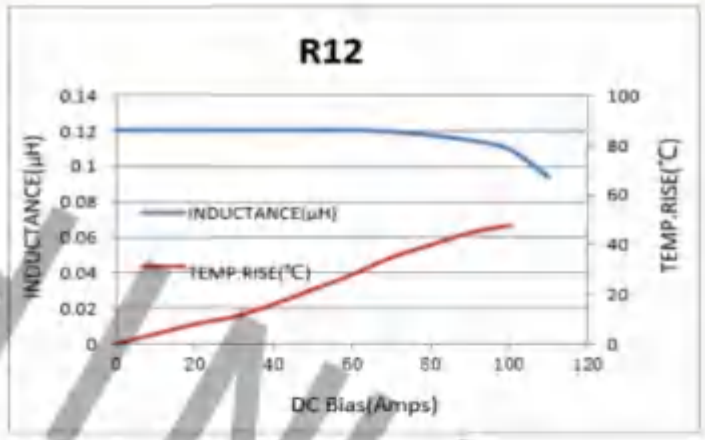
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

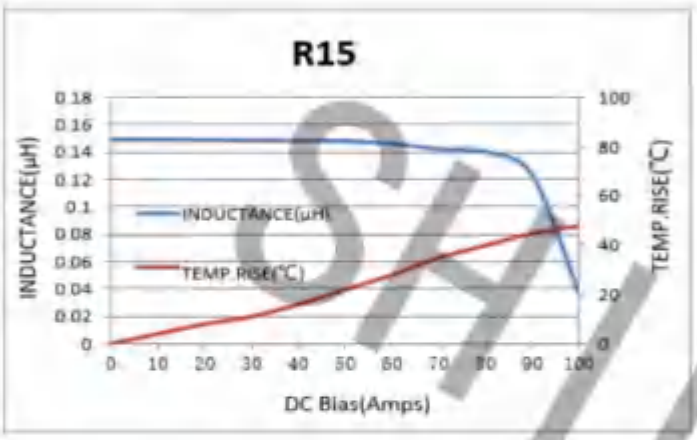
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

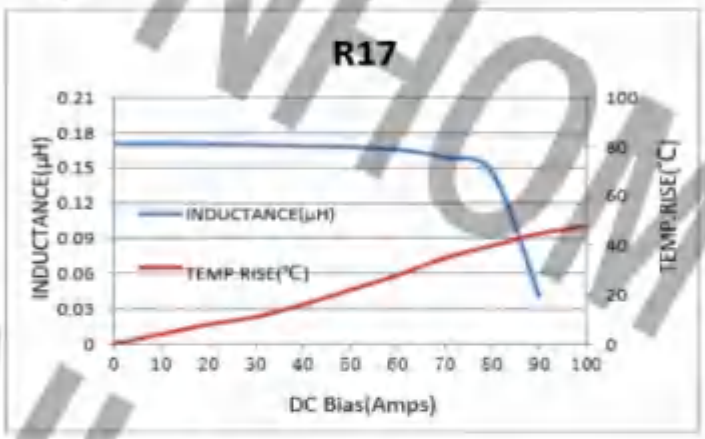
SHINHOM

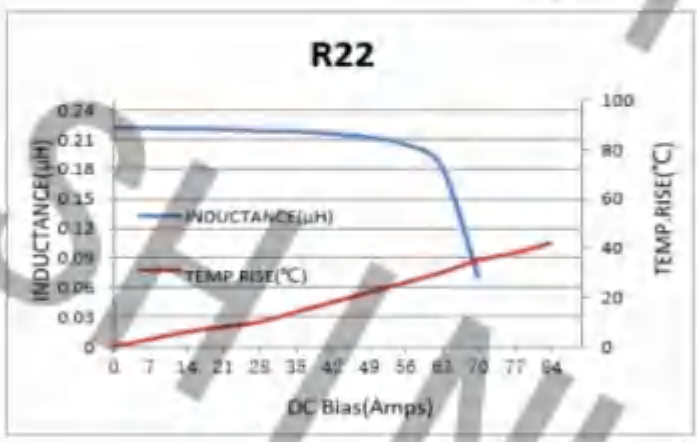
Inductance Characteristics:

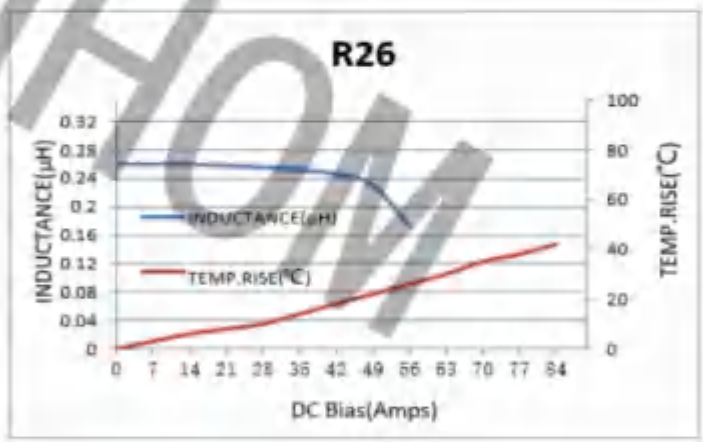


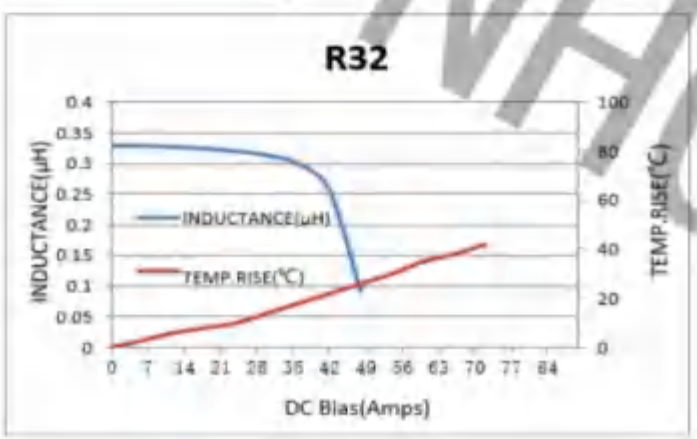












SHINHOM

Low Profile, High Current Power Inductors





Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C ; <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
HCB100875R29-R10	100	56	80	7.5	0.29
HCB100875R29-R12	120	56	80	7.5	0.29
HCB100875R29-R15	150	56	73	7.5	0.29
HCB100875R29-R18	180	56	65	7.5	0.29
HCB100875R29-R20	200	56	60	7.5	0.29
HCB100875R29-R24	240	56	50	7.5	0.29
HCB100875R29-R27	270	56	46	7.5	0.29
HCB100875R29-R32	320	56	35	7.5	0.29
HCB100875R29-R34	340	56	34	7.5	0.29
HCB100875R29-R37	370	56	30	7.5	0.29

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 0.1 Vrms,0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 °C
4. Measurement Equipment: WK3260B+WK3266B

5. Part Number Definition:

HCB 100875 Rxx - Ryy

- Ryy: Inductance value in µH, R = decimal point
- Rxx: DCR value in mΩ, R = decimal point
- 100875: Max. product size (L*W*H)=10.0*8.0*7.5(Max.)
- HCB: Product code

Technical Data — HCB100875R29 Series

Dimensions:[mm]



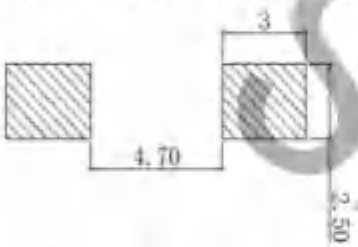
Dimensions

Type	Size
A	10.2±0.2
B	8.0 max.
C	7.5 max.
D	2.2±0.2
E	2.54±0.5

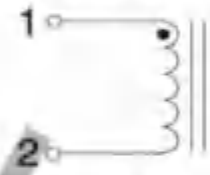
Product Marking:

Part Code	Ryy
Date Code	YYWW

Recommended Pad Layout:[mm]

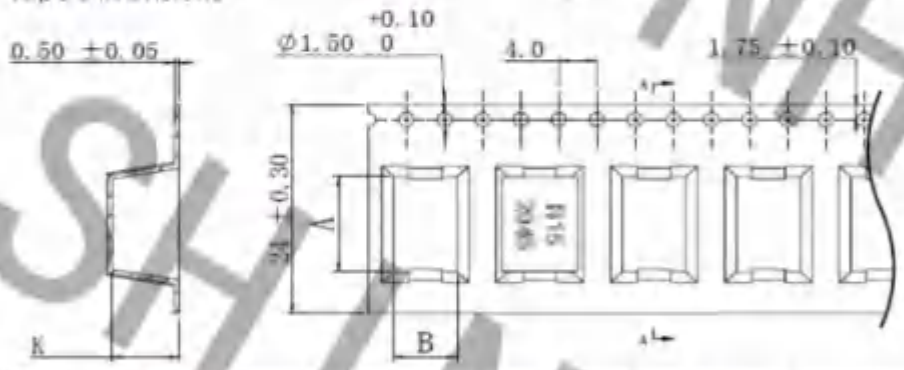


Schematic:

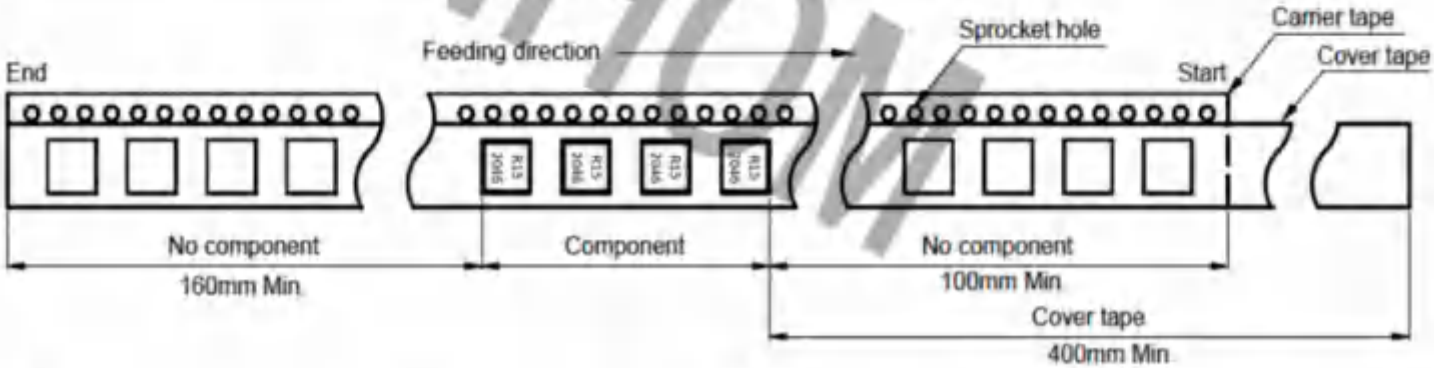


Packaging Information:[mm]

Tape Dimensions



Part Number	A	B	K
HCB100875R29 Type	10.8±0.1	8.0±0.1	7.7±0.1

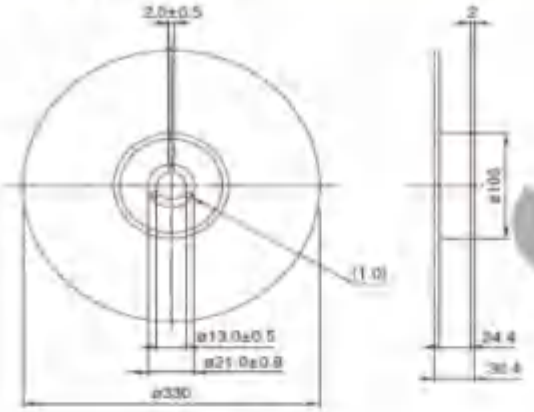


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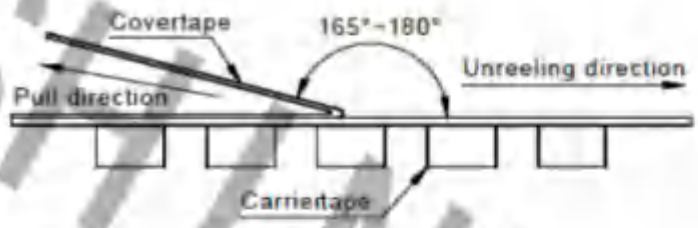
Technical Data — HCB100875R29 Series

Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
16/24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB100875R29 Type	700

Recommended Reflow Profile:

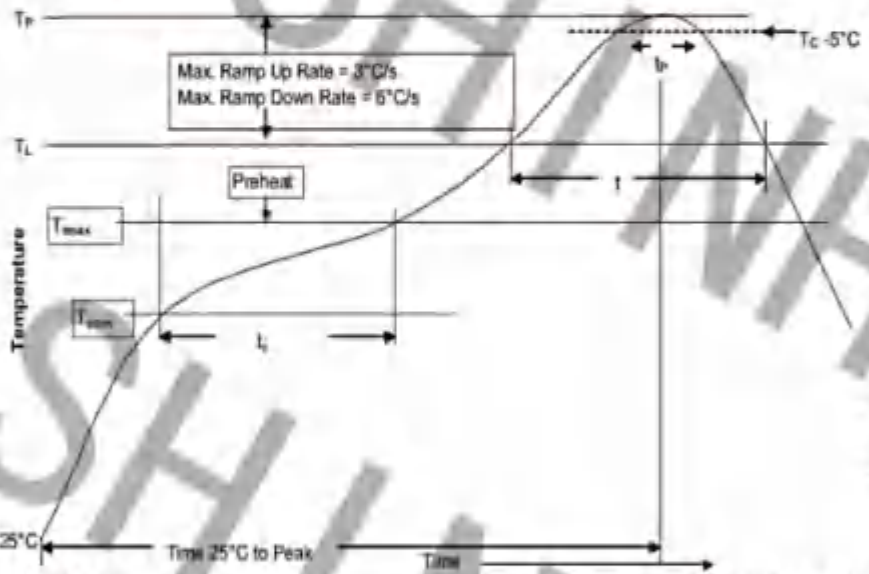


Table 1 - Standard SnPb Solder (T_c)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm)	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_c)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
≥2.5mm	250°C	245°C	245°C

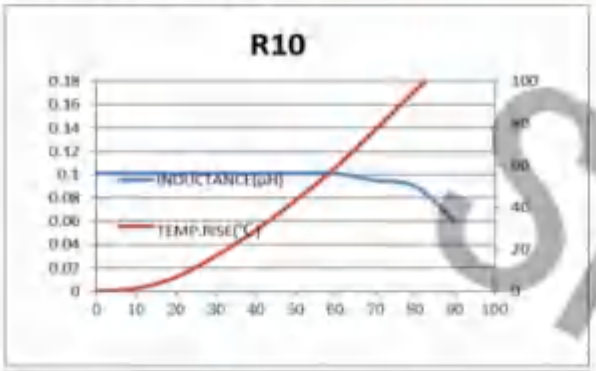
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_c)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

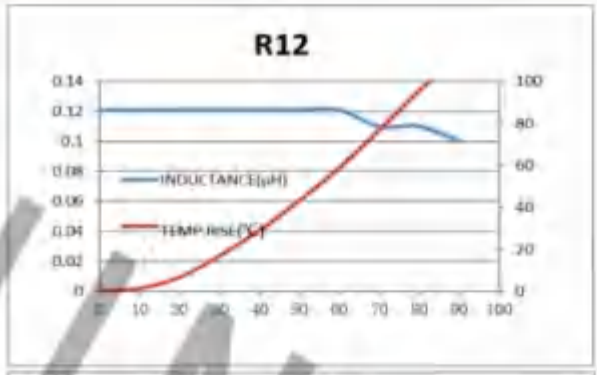
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

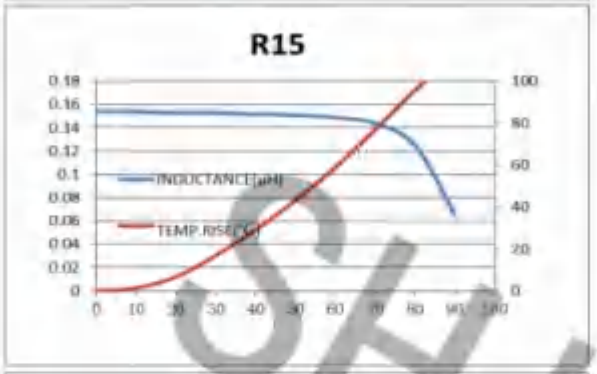
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

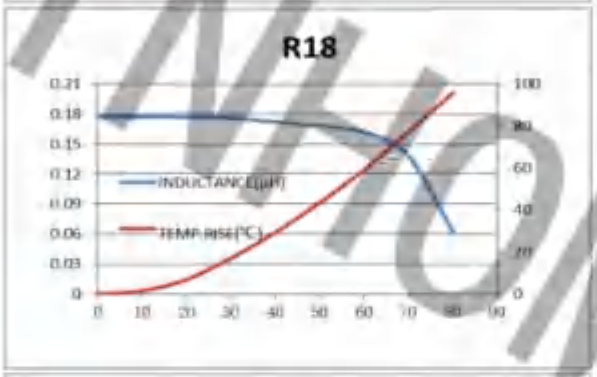
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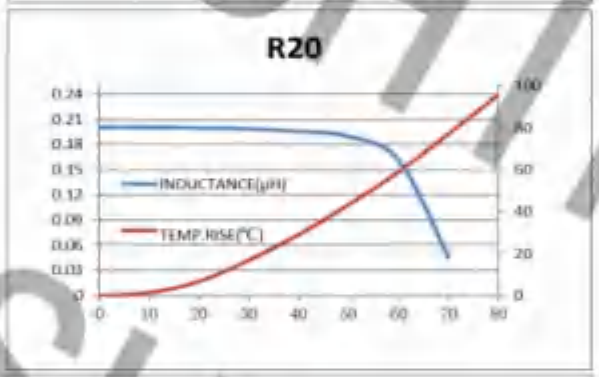
Inductance Characteristics:

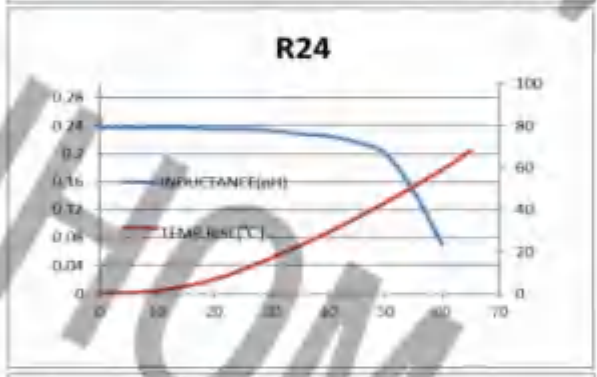


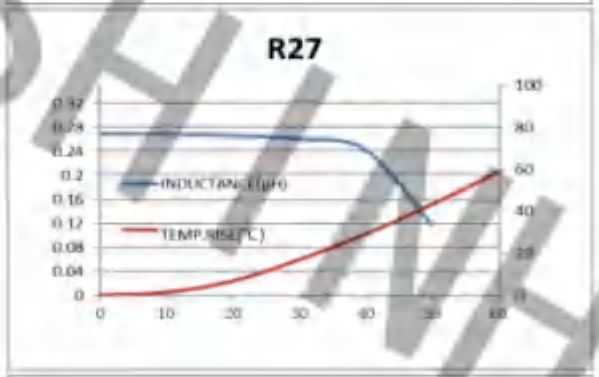


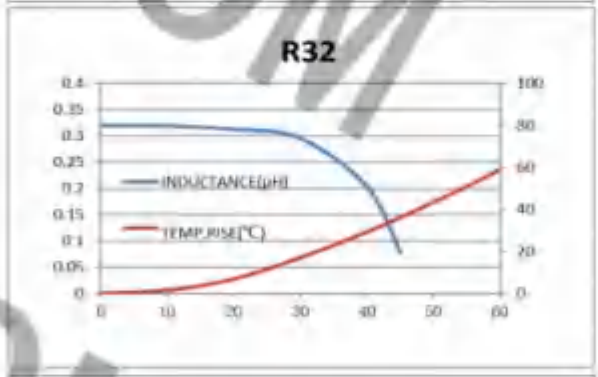


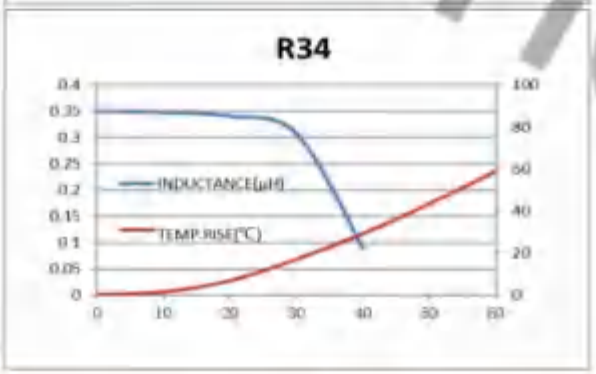


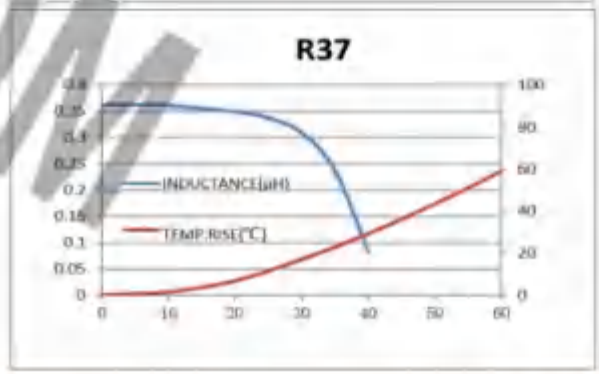












SHINHOM

Low Profile, High Current Power Inductors



Features

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Operating temperature range: –40 to +125°C (including self-temperature rise)
- Shielded construction

Environmental Data

- Storage Conditions (In Original Packaging): <40°C , <75%RH
- Operating temperature range: -40°C to +125°C (Ambient plus self temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Applications

- Servers
- Multi-phase and Vcore regulators
- Voltage Regulator Modules (VRMs)
  - Server and desktop
  - Central processing unit (CPU)
  - Graphics processing unit (GPU)
  - Specific integrated circuit (ASIC)
  - High power density
- Notebook regulators
- Battery power systems
- Graphics cards

Product Specifications

Part Number[5]	OCL[1] (nH) ±15%	Irms[2] (Amps)	Isat[3] (Amps)	Height (max.)	DCR(mΩ) typical @ +20 °C
HCB121109R30-R15	150	55	105	9.0	0.30
HCB121109R30-R18	180	55	90	9.0	0.30
HCB121109R30-R22	220	55	78	9.0	0.30
HCB121109R30-R25	250	55	68	9.0	0.30
HCB121109R30-R29	290	55	55	9.0	0.30
HCB121109R30-R33	330	55	54	9.0	0.30
HCB121109R30-R38	380	55	45	9.0	0.30
HCB121109R30-R47	470	55	38	9.0	0.30
HCB121109R30-R50	500	55	32	9.0	0.30

Notes:

1. Open Circuit Inductance (OCL) Test Parameters: 100 kHz, 1 Vrms,0.0 Adc, +25 °C
2. Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.
3. Isat: Peak current for approximately 20% rolloff @+25 °C.
4. Measurement Equipment: WK3260B+WK3265B

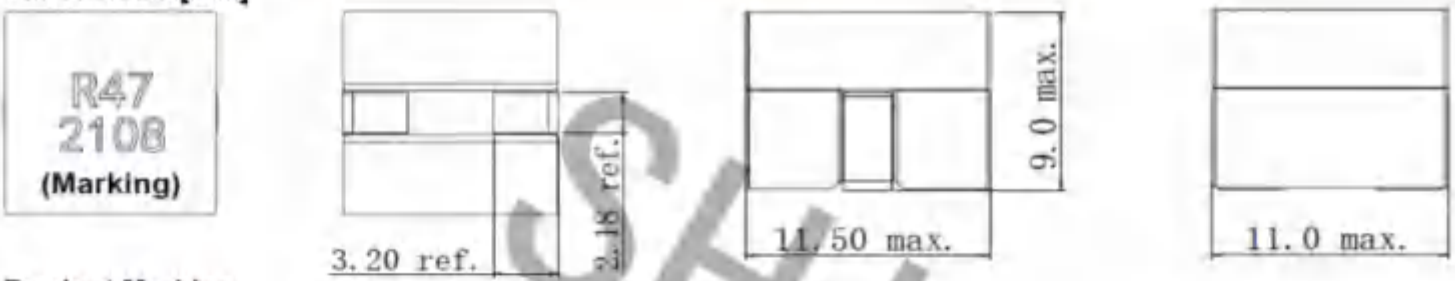
5. Part Number Definition:

HCB 121109 Rxxx - Ryy

- Inductance value in µH, R = decimal point
- DCR value in mΩ, R = decimal point
- Max. product size (L*W*H)=11.5*11.0*9.0(Max.)
- Product code

Technical Data — HCB121109R30 Series

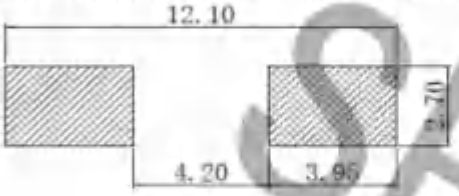
Dimensions:[mm]



Product Marking:

Part Code	Ryy
Date Code	YYWW

Recommended Pad Layout:[mm]

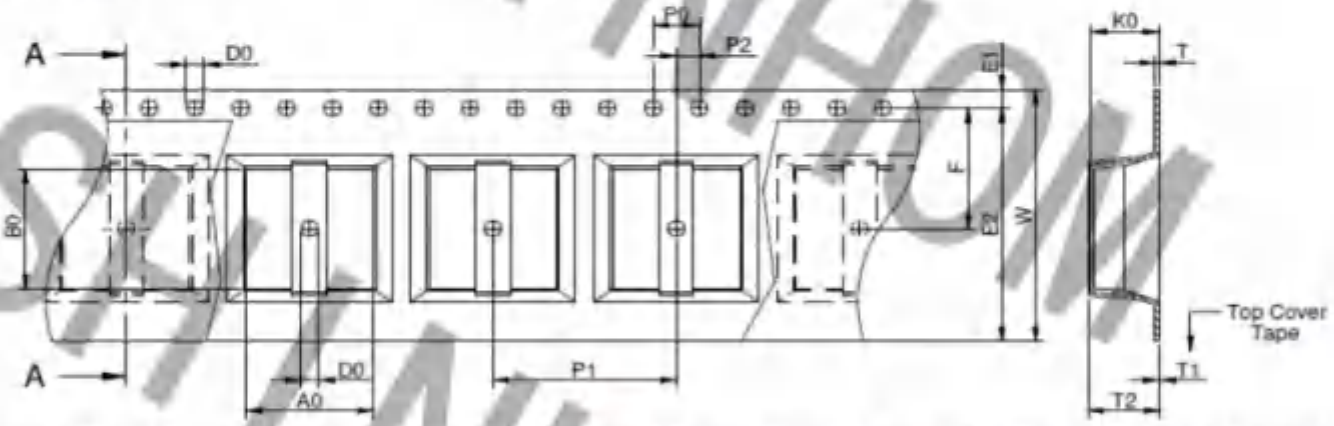


Schematic:

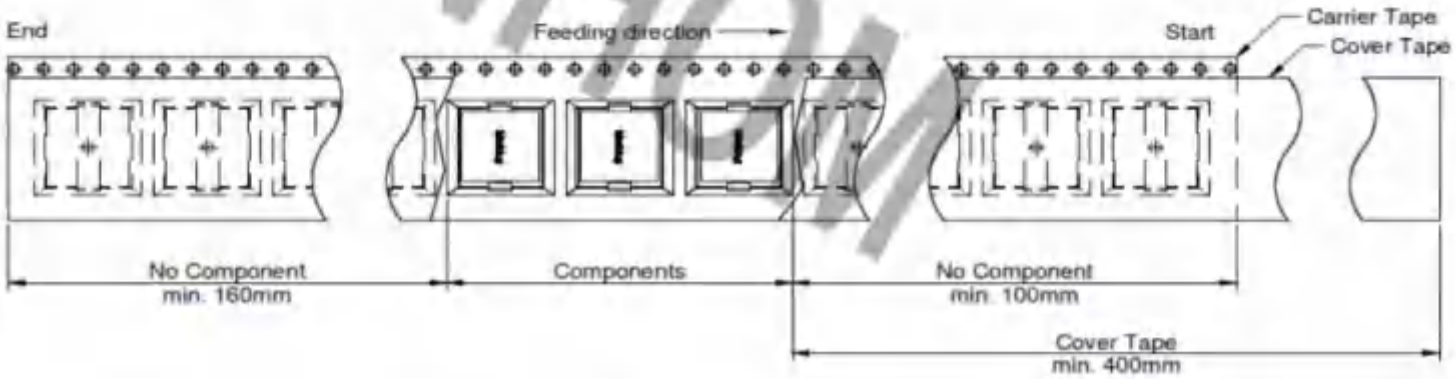


Packaging Information:[mm]

Tape Dimensions



Material	A0(typ.)	B0(typ.)	W (±0.3)	T (ref.)	T1 (max.)	T2 (typ.)	P0 (±0.1)	P1 (±0.1)	P2 (±0.1)	D0 (+0.1/-0.0)	E1 (±0.1)	E2 (min.)	F (±0.1)
Polystyrene	11.60	12.00	24.00	0.40	0.10	9.70	4.00	20.00	2.00	1.50	1.75	22.25	11.50

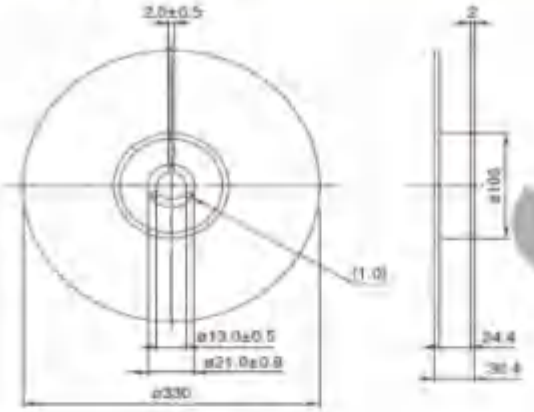


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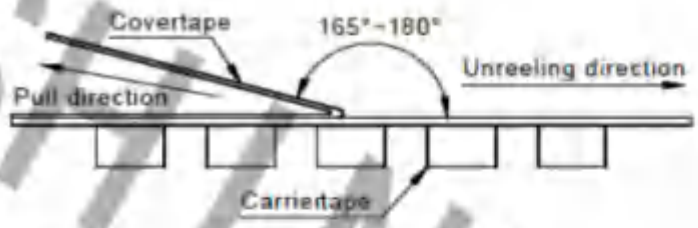
Technical Data — HCB121109R30 Series

Reel Dimensions



Cover tape peel off condition

Tape Width	Peel-off Force	Peel Speed
12/16/24mm	0.1~1.3N	300±10mm/M



Packing Quantity

Part Number	Quantity (pcs/reel)
HCB121109R30 Type	300

Recommended Reflow Profile:

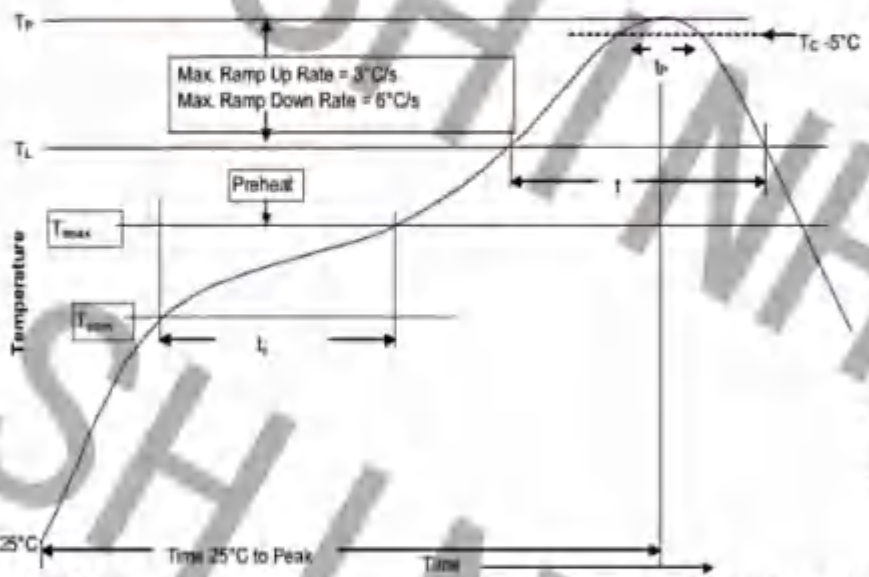


Table 1 - Standard SnPb Solder (T_c)

Package Thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5mm)	235°C	220°C
≥2.5mm	220°C	220°C

Table 2 - Lead (Pb) Free Solder (T_c)

Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6mm	260°C	260°C	260°C
1.6 – 2.5mm	260°C	250°C	245°C
≥2.5mm	250°C	245°C	245°C

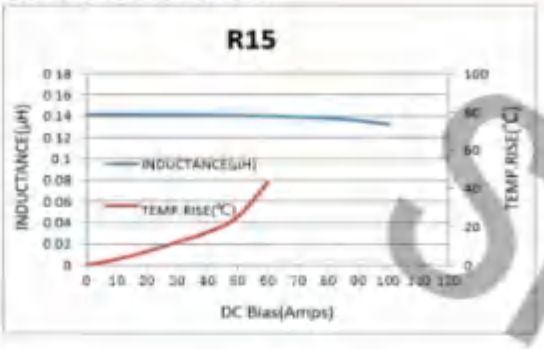
Profile Feature		Standard SnPb Solder	Lead (Pb) Free Solder
Preheat and Soak	• Temperature min. (T_{smin})	100°C	150°C
	• Temperature max. (T_{smax})	150°C	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 Seconds	60-120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.	3°C/ Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		183°C 60-150 Seconds	217°C 60-150 Seconds
Peak package body temperature (T_p)*		Table 1	Table 2
Time (t_p)** within 5 °C of the specified classification temperature (T_c)		20 Seconds**	30 Seconds**
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.	6°C/ Second Max.
Time 25°C to Peak Temperature		6 Minutes Max.	8 Minutes Max.

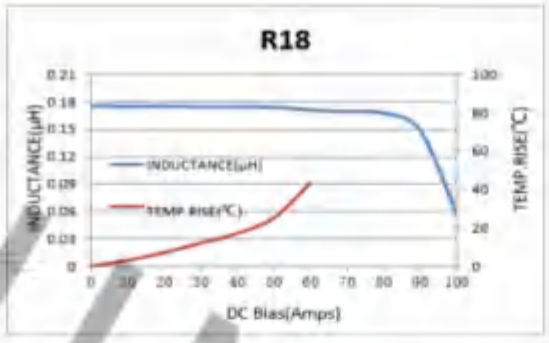
* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

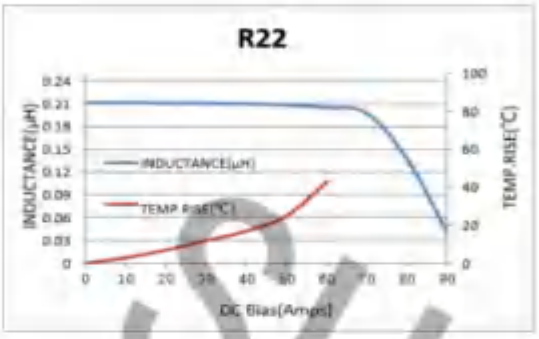
** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

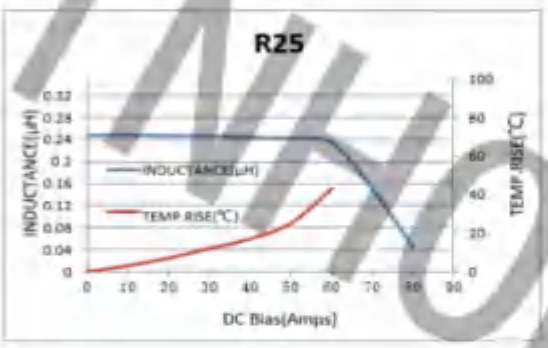
SHINHOM

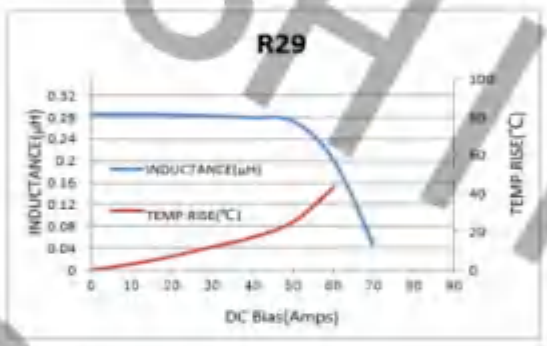
Inductance Characteristics:

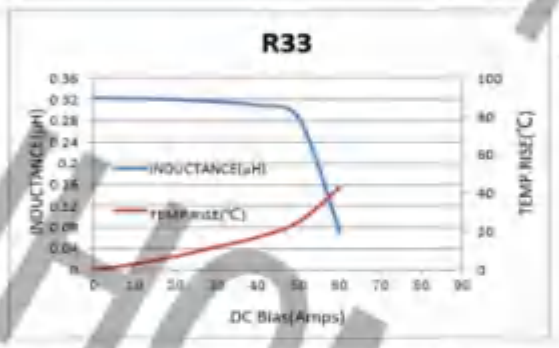


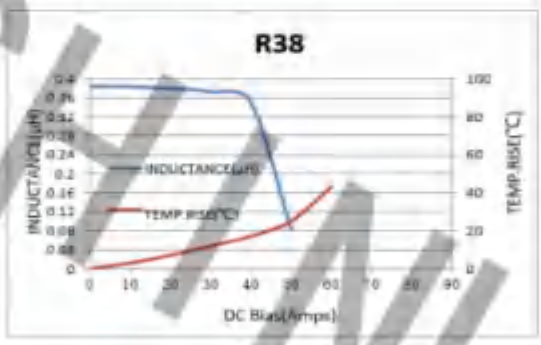


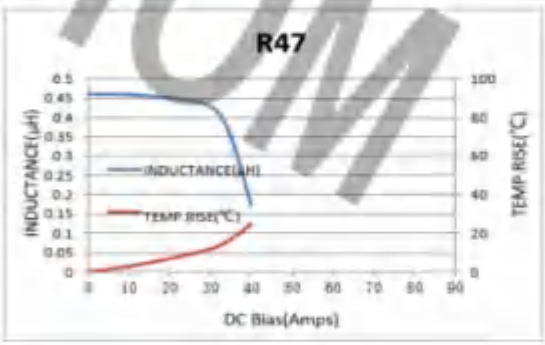


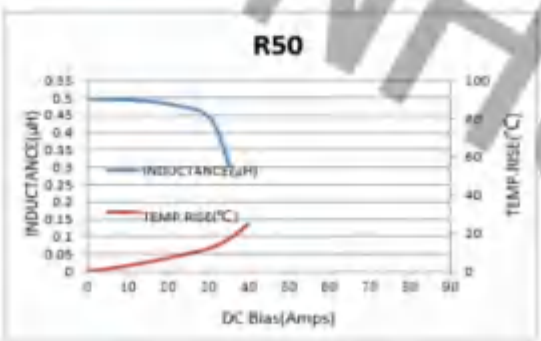












SHINHOM

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS0603 SERIES



FEATURES:

- Current up to 1.0A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs.
- OA equipment
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

Part Number SDRS0603-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.14	1.00
120M	12	0.16	0.94
150M	15	0.18	0.86
180M	18	0.25	0.78
220M	22	0.32	0.76
270M	27	0.36	0.64
330M	33	0.41	0.61
390M	39	0.47	0.53
470M	47	0.51	0.50
560M	56	0.72	0.46
680M	68	0.82	0.42
820M	82	0.82	0.42
101M	100	0.82	0.42
121M	120	0.82	0.42
151M	150	0.82	0.42
181M	180	0.82	0.42
221M	220	0.82	0.42
271M	270	0.82	0.42
331M	330	0.82	0.42
391M	390	0.82	0.42
471M	470	0.82	0.42
561M	560	0.82	0.42
681M	680	0.82	0.42
821M	820	0.82	0.42

Note:1. K=±10%,M=±20%,N=±30%

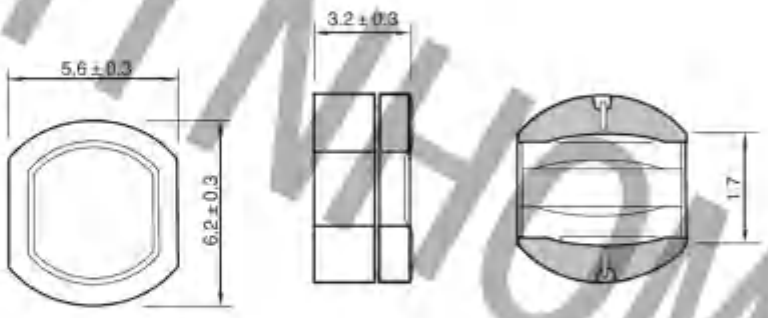
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  –Q– HP4342A – SRF–HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: –40℃ to +85℃
- Storage Temperature: –40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Ordering information:

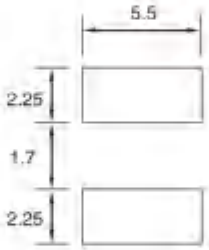
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ± 20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Note!:All specification subject to change without noticed.

SHINHOM

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS0704 SERIES



FEATURES:

- Current up to 1.65A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs.
- OA equipment
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

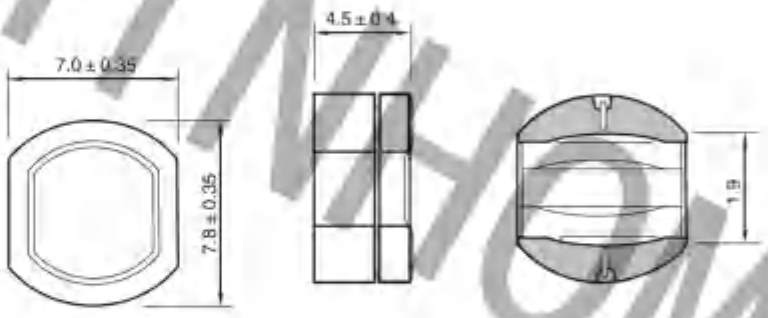
Part Number SDRS0704-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.07	1.65
120M	12	0.07	1.57
150M	15	0.08	1.39
180M	18	0.10	1.9
220M	22	0.13	1.12
270M	27	0.16	1.06
330M	33	0.18	0.97
390M	39	0.18	0.91
470M	47	0.27	0.80
560M	56	0.26	0.76
680M	68	0.33	0.68
820M	82	0.43	0.62
101M	100	0.49	0.55
121M	120	0.68	0.49
151M	150	0.94	0.44
181M	180	1.09	0.40
221M	220	1.16	0.36
271M	270	1.30	0.33
331M	330	1.30	0.33
391M	390	1.30	0.33
471M	470	1.30	0.33
561M	560	1.30	0.33
681M	680	1.30	0.33
821M	820	1.30	0.33

Note:1. K=±10%,M=±20%,N=±30%

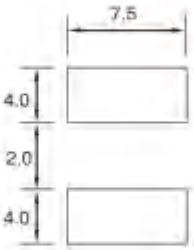
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  –Q– HP4342A – SRF–HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: –40℃ to +85℃
- Storage Temperature: –40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance
  Ordering information:
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ± 20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Note!:All specification subject to change without noticed.

SHINHOM

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS
SDRS1005 SERIES



FEATURES:

- Current up to 2.06A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs.
- OA equipment
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

Part Number SDRS1005-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.06	2.06
120M	12	0.07	1.94
150M	15	0.07	1.72
180M	18	0.08	1.58
220M	22	0.08	1.42
270M	27	0.10	1.32
330M	33	0.11	1.16
390M	39	0.12	1.10
470M	47	0.14	1.00
560M	56	0.19	0.93
680M	68	0.21	0.85
820M	82	0.28	0.79
101M	100	0.34	0.72
121M	120	0.37	0.63
151M	150	0.51	0.55
181M	180	0.57	0.50
221M	220	0.78	0.47
271M	270	0.87	0.41
331M	330	1.20	0.37
391M	390	1.34	0.5
471M	470	1.50	0.33
561M	560	1.50	0.33
681M	680	1.50	0.33
821M	820	1.50	0.33

Note:1. K=±10%,M=±20%,N=±30%

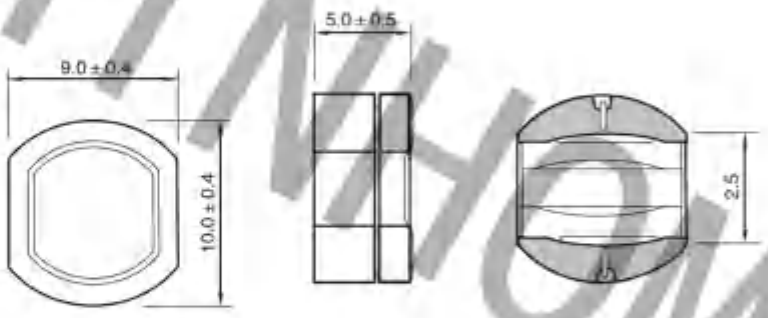
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  -Q- HP4342A - SRF-HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: -40℃ to +85℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Ordering information:

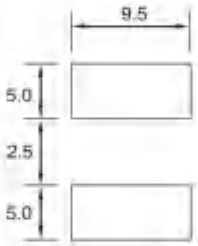
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ± 20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Note!:All specification subject to change without noticed.

SHINHOM

HIGH CURRENT SURFACE-MOUNT POWER SHIELDED INDUCTORS

SDRS1205 SERIES



FEATURES:

- Current up to 2.65A
- Very Small Foot Pint
- Flat-top for Pick& Place
- Shielded structure

APPLICATION:

- Power supply for VTRs.
- OA equipment
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters,etc.

STANDARD SPECIFICATION:

Part Number SDRS1205-	L (μH)	DCR(Ω)Max.	IDC(A)
100M	10	0.05	2.65
120M	12	0.05	2.50
150M	15	0.06	2.45
180M	18	0.06	2.40
220M	22	0.07	2.20
270M	27	0.08	2.00
330M	33	0.10	1.80
390M	39	0.11	1.65
470M	47	0.12	1.50
560M	56	0.15	1.38
680M	68	0.17	1.26
820M	82	0.20	1.14
101M	100	0.25	1.05
121M	120	0.28	0.95
151M	150	0.40	0.85
181M	180	0.48	0.77
221M	220	0.52	0.70
271M	270	0.70	0.63
331M	330	0.80	0.57
391M	390	1.08	0.52
471M	470	1.20	0.48
561M	560	1.34	0.44
681M	680	1.78	0.40
821M	820	2.00	0.36

Note:1. K=±10%,M=±20%,N=±30%

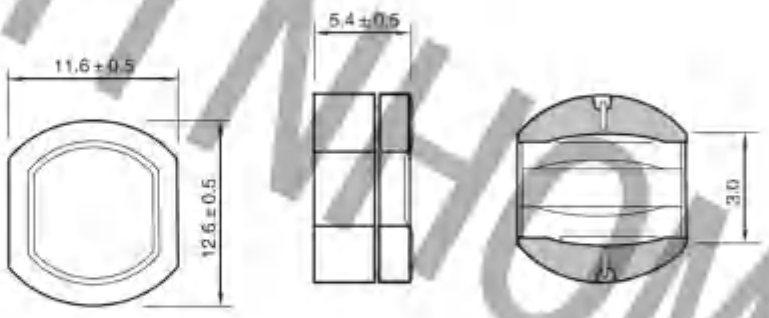
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  –Q– HP4342A – SRF–HP4191A
- IDC Max:Determined when superimposed DC current is decreased 10% against its initial value
- Operating temperature: –40℃ to +85℃
- Storage Temperature: –40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Ordering information:

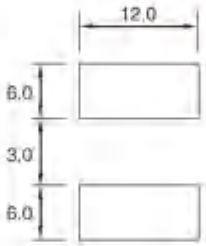
- Type:Surface Mounting Type.
- Style:DR Core with RL core.
- Anductance:101 for 100uH.
- Anductance tolerance:M: ± 20%.

PHYSICAL CHARACTERISTICS:

DIMENSIONS IN: mm



PAD LAYOUT



Note!:All specification subject to change without noticed.

SHINHOM

HIGH CURRENT SHIELDED SURFACE-MOUNT WIRE-WOUND INDUCTORS

LQH1210S SERIES



FEATURES:

- Ferrite shielded structure
- High Frequency Design
- Lower DCR permits High Idc
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- RoHS compliant
- Excellent Thermal Stability

COMMON APPLICATIONS:

- Modems PDP, LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

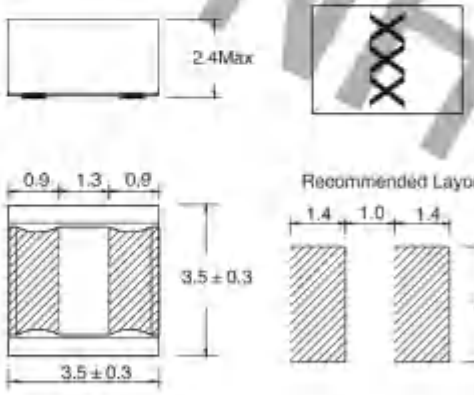
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	L Test Freq (KHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mAMax)
LQH1210S-1R0M	1.0	1	30	1	120	0.02	1000
LQH1210S-2R2M	2.2	1	30	1	60	0.06	800
LQH1210S-4R7M	4.7	1	35	1	35	0.11	600
LQH1210S-100K	10	1	35	1	22	0.15	300
LQH1210S-220K	22	1	40	1	15	0.32	180
LQH1210S-470K	47	1	45	1	12	0.64	150
LQH1210S-101K	100	1	45	0.796	9.0	1.74	90
LQH1210S-221K	220	1	50	0.796	6.0	4.51	80
LQH1210S-331K	330	1	50	0.796	4.2	8.63	70
LQH1210S-391K	390	1	50	0.796	3.8	9.11	60
LQH1210S-471K	470	1	50	0.796	3.5	9.52	50
LQH1210S-561K	560	1	50	0.796	3.0	10.14	50
LQH1210S-681K	680	1	50	0.796	2.6	11.83	40
LQH1210S-102K	1000	1	50	0.796	2.1	14.3	30
LQH1210S-152K	1500	1	50	0.796	1.7	29.9	25
LQH1210S-222K	2200	1	50	0.796	1.6	36.4	20

Note:1. K= ± 10%,M= ± 20%

PHYSICAL CHARACTERISTICS

Dimensions(mm)



Winding



- Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1880 Milliohmmeter
- Q- HP4342A
- SRF- HP4191A
- Rated Current: L value drop10%typ at IDCagainst its initial value
- Temperature rise 40℃ Max Reference ambient temperature
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -55℃ to +125℃

Note: All specifications subject to change without notice.

SHINHOM

HIGH CURRENT SHIELDED SURFACE-MOUNT WIRE-WOUND INDUCTORS

LQH2220S SERIES



FEATURES:

- Ferrite shielded structure
- High Frequency Design
- Lower DCR permits High Idc
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- RoHS compliant
- Excellent Thermal Stability

COMMON APPLICATIONS:

- Modems, PDP, LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

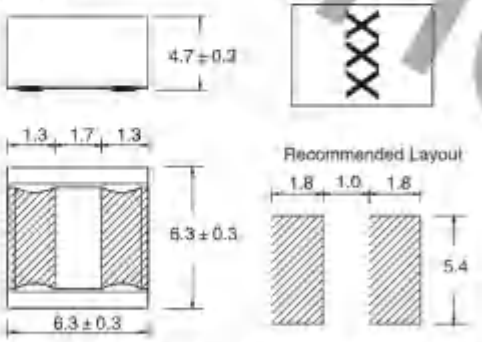
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	L Test Freq (KHz)	Q (Min)	Q Test Freq (MHz)	SRF (MHz)	DCR (Ω Max)	IDC (mAMax)
LQH2220S-R27M	0.27	1	20	1	300	0.007	6000
LQH2220S-R68M	0.68	1	20	1	180	0.010	5300
LQH2220S-1R0M	1.0	1	30	1	150	0.013	4700
LQH2220S-1R5M	1.5	1	30	1	110	0.016	3800
LQH2220S-2R2M	2.2	1	30	1	80	0.019	3300
LQH2220S-3R3M	3.3	1	30	1	40	0.022	2600
LQH2220S-4R7M	4.7	1	30	1	30	0.025	2200
LQH2220S-6R8M	6.8	1	30	1	25	0.029	1800
LQH2220S-100K	10	1	30	1	20	0.036	1600
LQH2220S-150K	15	1	35	1	17	0.069	1300
LQH2220S-220K	22	1	35	1	15	0.087	1100
LQH2220S-470K	33	1	35	1	12	0.14	860
LQH2220S-680K	47	1	35	1	10	0.17	760
LQH2220S-101K	68	1	35	1	7.6	0.29	600
LQH2220S-151K	100	0.1	40	0.796	6.5	0.36	520
LQH2220S-221K	150	0.1	45	0.796	5.5	0.63	420
LQH2220S-331K	220	0.1	45	0.796	4.0	0.79	350
LQH2220S-391K	330	0.1	45	0.796	3.2	1.8	280
LQH2220S-471K	470	0.1	50	0.796	2.5	2.2	240
LQH2220S-681K	680	0.1	50	0.796	2.0	3.9	200
LQH2220S-102K	1000	0.01	50	0.252	1.7	4.9	160
LQH2220S-222K	2200	0.01	50	0.252	1.2	9.4	100
LQH2220S-472K	4700	0.01	50	0.252	0.8	19.5	70
LQH2220S-103K	10000	0.01	50	0.252	0.5	39.7	50

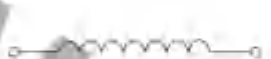
Note:1. K= ± 10%,M= ± 20%

PHYSICAL CHARACTERISTICS

Dimensions(mm)



Winding

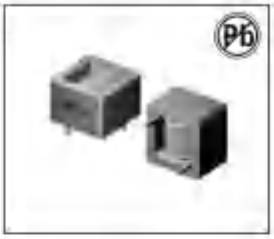


- Inductance Testing: HP4284A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1560 Milliohmmeter
- Q= HP4342A
- SRF=HP4191A
- Rated Current: L value drop10%typ.at IDC against its initial value
- Temperature rise 40℃ Max Reference ambient temperature
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -55℃ to +125℃

Note: All specifications subject to change without notice.

NO-BOARD TYPE HIGH CURRENT POWER INDUCTORS

HR1312 SERIES



FEATURES:

- Shielded Construction.
- Lowest DCR/ μ H in this package size.
- Handles High Transient Current Spikes Without Saturation.
- The Products Contain no Lead and also Support Lead-free Soldering.

COMMON APPLICATIONS:

- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

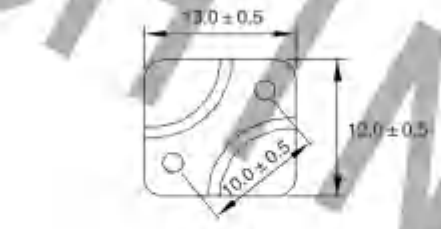
ELECTRICAL CHARACTERISTICS:

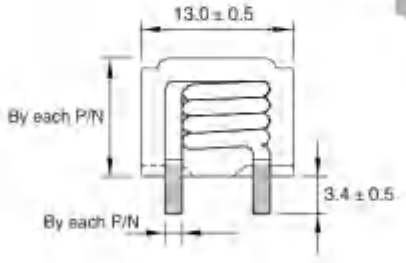
Part Number	L(0A) μ H ± 20%	C (mm)Max	D (mm) ± 0.1	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HR1312-R22M	0.22	9	1.7	0.40	0.55	45	60
HR1312-R30M	0.30	9	1.7	0.55	0.70	40	60
HR1312-R33M	0.33	9	1.7	0.55	0.70	40	60
HR1312-R39M	0.39	9	1.7	0.55	0.70	40	60
HR1312-R47M	0.47	10	1.7	0.70	0.80	40	60
HR1312-R50M	0.50	10	1.7	0.70	0.80	40	60
HR1312-R56M	0.56	10	1.7	0.70	0.80	40	60
HR1312-R60M	0.60	10	1.7	0.70	0.80	40	60
HR1312-R68M	0.68	10	1.7	0.70	0.80	40	50
HR1312-R80M	0.80	10	1.7	0.70	0.85	40	50
HR1312-1R0M	1.00	10	1.5	1.20	1.35	30	50
HR1312-1R2M	1.20	10	1.5	1.20	1.50	30	40
HR1312-1R5M	1.50	10	1.4	1.50	1.70	25	30
HR1312-2R0M	2.00	10	1.2	2.90	3.30	17	25
HR1312-2R2M	2.20	10	1.2	2.90	3.30	17	25

Note 1. K= ± 10%,M= ± 20%,N= ± 30%

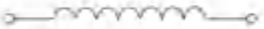
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)





Winding



1. All test Data is referenced to 25℃ambient.
2. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
3. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
4. Isat will cause L0 to drop approximately 20%.
5. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
6. Operating Temperature & Storage Temperature: -25℃ ~ +125℃.

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SMD HIGH CURRENT POWER INDUCTORS

HR SERIES



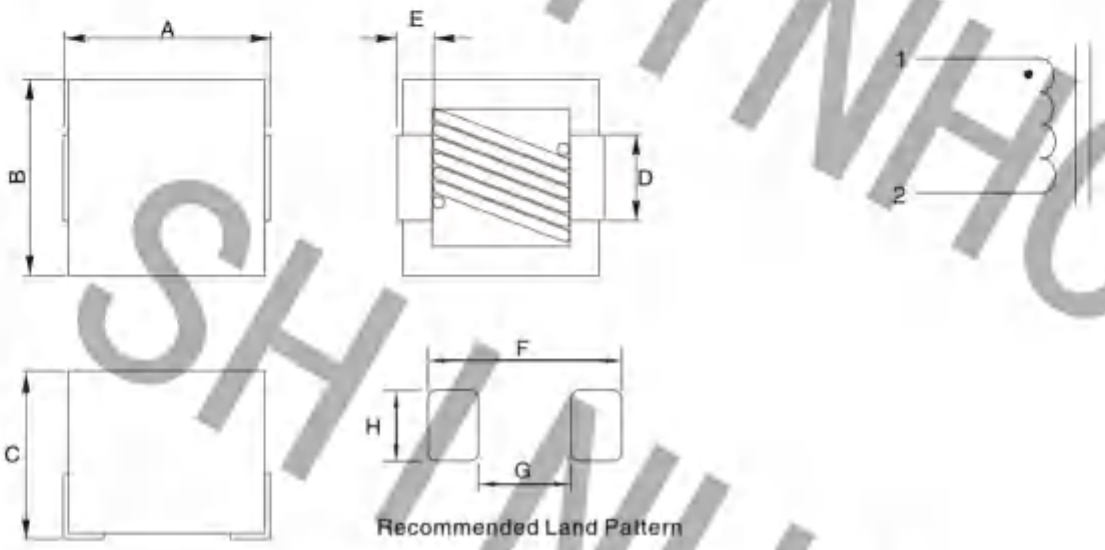
FEATURES:

- High current and Low DCR
- Low profile for machine placement
- Minimize electromagnetic interference
- Prevent EMI effect via precise impedance
- Custom design available

COMMON APPLICATIONS:

- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Recommended Land Pattern

Dimensions(mm)

Part Number	A	B	C	D	E	F	G	H	Packing (Pcs/Reel)
HR0807 Series	7.9±0.3	8.4±0.4	7.0±0.4	2.3±0.2	1.5±0.2	8.5	4.3	2.9	500
HR1009 Series	10.0±0.3	10.9±0.4	9.3±0.5	3.0±0.2	1.6±0.2	10.6	6.2	3.6	400
HR1210 Series	11.4±0.4	12.1±0.4	9.5±0.5	3.5±0.2	2.0±0.2	12.0	6.8	4.1	300

Notes:

1. All test Data is referenced to 25℃ambient.
2. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
3. Test condition: 100KHz,0.1V
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -25℃ ~ +125℃

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Note:All specifications subject to change without notice.

SMD HIGH CURRENT POWER INDUCTORS

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	Irms (A)	Isat (A)	DCR (mΩ)Max
HR0807-R30M	0.3	20.5	36.0	1.54
HR0807-R47M	0.47	19.0	32.0	1.89
HR0807-R56M	0.56	19.0	28.0	1.89
HR0807-R68M	0.68	19.0	23.5	1.89
HR0807-R82M	0.82	17.0	23.0	3.25
HR0807-1R0M	1.0	17.0	24.0	3.25
HR0807-1R5M	1.5	16.5	18.5	4.84
HR0807-2R2M	2.2	16.5	12.5	4.84
HR0807-3R3M	3.3	14.0	8.5	7.15
HR0807-4R7M	4.7	7.5	8.0	13.64
HR0807-6R8M	6.8	5.5	7.5	24.42
HR0807-100M	10	4.4	7.0	44.55
HR1009-R22M	0.22	21.5	60.0	0.66
HR1009-R33M	0.33	21.5	55.0	0.66
HR1009-R47M	0.47	20.5	47.0	0.88
HR1009-R68M	0.68	20.0	38.0	1.49
HR1009-R82M	0.82	20.0	36.0	1.49
HR1009-1R0M	1.0	20.0	27.5	1.49
HR1009-1R5M	1.5	18.0	27.0	2.75
HR1009-2R2M	2.2	16.5	22.0	4.07
HR1009-3R3M	3.3	14.0	15.5	5.94
HR1009-4R7M	4.7	13.0	15.0	9.02
HR1009-6R8M	6.8	11.5	11.0	14.52
HR1009-8R2M	8.2	11.5	8.0	14.52
HR1009-100M	10	9.0	8.0	22.77
HR1210-R22M	0.22	27.0	60.0	0.58
HR1210-R33M	0.33	27.0	55.0	0.58
HR1210-R47M	0.47	26.0	48.0	0.79
HR1210-R68M	0.68	26.0	38.0	0.79
HR1210-R82M	0.82	24.0	36.0	1.29
HR1210-1R0M	1.0	24.0	32.0	1.29
HR1210-R15M	1.5	19.5	27.0	2.31
HR1210-2R2M	2.2	18.0	23.0	3.36
HR1210-3R3M	3.3	17.0	17.0	4.84
HR1210-4R7M	4.7	15.5	17.0	6.99
HR1210-6R8M	6.8	13.0	13.0	9.88
HR1210-8R2M	8.2	13.0	12.0	10.89
HR1210-100M	10.0	9.0	10.0	15.84

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

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HIGH CURRENT POWER INDUCTORS

HQ1009 SERIES

COMMON APPLCATIONS:

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

FEATURES:

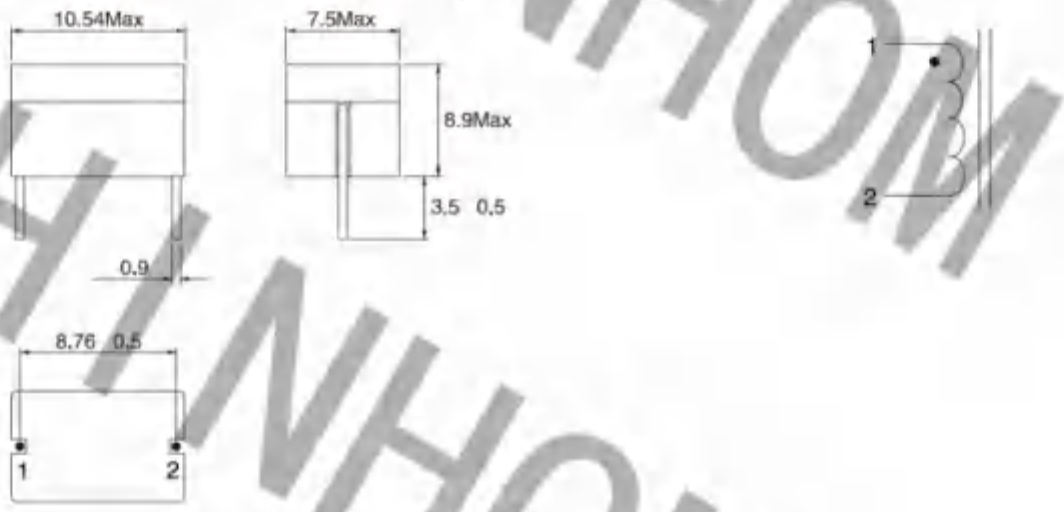
- Current Rating up to 80Apk
- Inductance Range: 0.14 μ H to 0.31 μ H
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Compliant to RoHS directive 2002/95/EC

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 15% @0Adc	Heat rating current DC (A)	Saturation current DC (A)	DCR Max. (mΩ).
HQ1009-R14Y	0.14	40	80	0.49 ± 5%
HQ1009-R16Y	0.16	40	70	0.49 ± 5%
HQ1009-R19Y	0.19	40	65	0.49 ± 5%
HQ1009-R22Y	0.22	40	55	0.49 ± 5%
HQ1009-R25Y	0.25	40	50	0.49 ± 5%
HQ1009-R31Y	0.31	40	35	0.49 ± 5%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



NOTES:.

- The rated current listed is the lower of the saturation current @25℃ or the heating current.
- Test Frequency : 100KHz / 1Vdc
- Heat Rated Current (Irms) will cause the coil temperature rise approximately △T=40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

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HIGH CURRENT POWER INDUCTORS

HQ1108 SERIES

COMMON APPLCATIONS:

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

FEATURES:

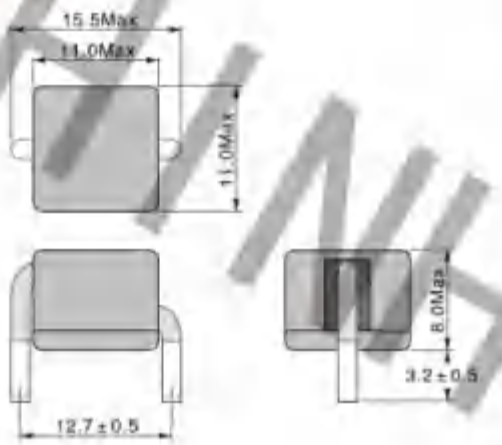
- Size: 15.5mm x 11mm x 8mm
- Current Rating:up to 50Apk
- Inductance Range: 0.14μH to 2.25μH
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Compliant to RoHS directive 2002/95/EC

ELECTRICAL CHARACTERISTICS:

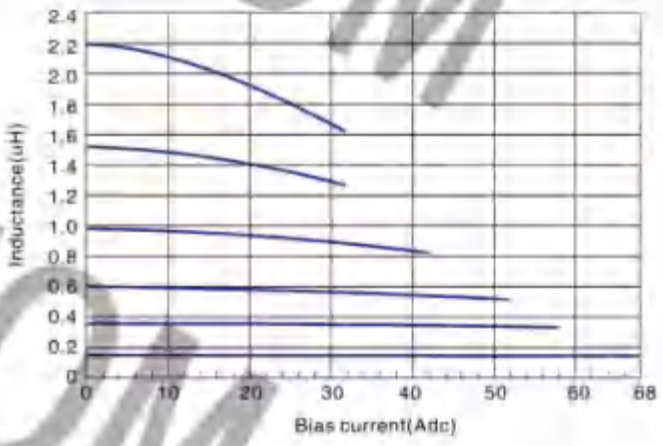
Part Number	Inductance L0(μH) ± 15% @0Adc	Inductance uH typ. @rated current(μH)	Heat rating current DC (A)	Saturation current DC (A)	DCR Max. (mΩ)
HQ1108-R15	0.15	0.14	38.7	50	0.80
HQ1108-R25	0.25	0.25	38.7	45	0.80
HQ1108-R35	0.35	0.32	25.5	45	1.85
HQ1108-R45	0.45	0.41	25.5	35	1.85
HQ1108-R60	0.6	0.54	20.2	35	2.80
HQ1108-R80	0.8	0.72	20.2	25	2.80
HQ1108-1R0	1.0	0.9	16.5	20	4.10
HQ1108-1R3	1.3	1.17	16.5	20	4.10
HQ1108-1R5	1.5	1.35	15.3	18	4.80
HQ1108-1R8	1.8	1.62	15.3	18	4.80
HQ1108-2R2	2.2	1.98	14.0	16	5.50
HQ1108-2R5	2.5	2.25	14.0	16	5.50

PHYSICAL CHARACTERISTICS:

Dimensions(mm)



DC BIAS CURRENT CHARACTERISTICS:



NOTES:

- The rated current listed is the lower of the saturation current @25℃ or the heating current.
- Test Frequency : 100KHz / 0.1Vdc
- Testing Instrument : L:HP4284A, CH11025,CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER
- Heat Rated Current (Irms) will cause the coil temperature rise approximately △T≈40℃ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 10%.
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

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SMD HIGH CURRENT POWER INDUCTORS

HSM0807 SERIES



FEATURES:

- High current and Low DCR
- Low profile for machine placement
- Min electromagnetic interference
- Prevent EMI effect via precise impedance
- Custom design available
- RoHS-compatible

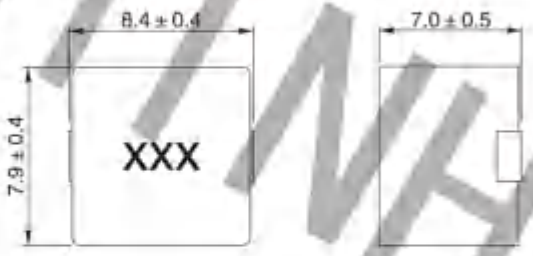
APPLICATIONS:

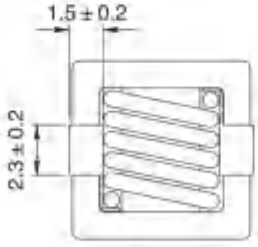
- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

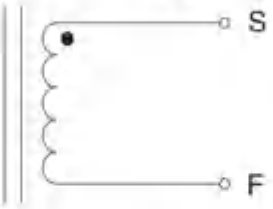
Part Number	L(uH) 100KHz,0.1V ±20%	Rated current Irms(A)	Saturation current Isat(A)	DCR (mΩ)Typ
HSM0807-R30M	0.3	20.5	36.0	1.54
HSM0807-R47M	0.47	19.0	32.0	1.89
HSM0807-R56M	0.56	19.0	28.0	1.89
HSM0807-R68M	0.68	19.0	23.5	1.89
HSM0807-R82M	0.82	17.0	23.0	3.25
HSM0807-1R0M	1.0	17.0	24.0	3.25
HSM0807-1R5M	1.5	16.5	18.5	4.84
HSM0807-2R2M	2.2	16.5	12.5	4.84
HSM0807-3R3M	3.3	14.0	8.5	7.15
HSM0807-4R7M	4.7	7.5	8.0	13.64
HSM0807-6R8M	6.8	5.5	7.5	24.42
HSM0807-100M	10	4.4	7.0	44.55

PHYSICAL CHARACTERISTICS





WINDING



- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Rated Current(Irms) will cause the coil temperature rise Approximately ΔT=40℃ Max
- Isat(A) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
- Storage Temperature: -40℃ to +105℃
- All specifications subject to change without notice.

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SMD HIGH CURRENT POWER INDUCTORS

HSM1009 SERIES



FEATURES:

- High current and Low DCR
- Low profile for machine placement
- Min electromagnetic interference
- Prevent EMI effect via precise impedance
- Custom design available
- RoHS-compatible

APPLICATIONS:

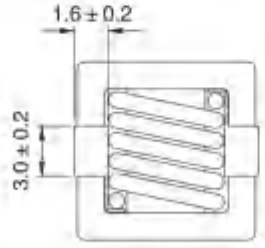
- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

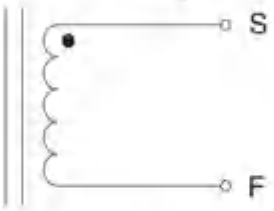
Part Number	L(uH) 100KHz,0.1V ±20%	Rated current Irms(A)	Saturation current Isat(A)	DCR (mΩ)Typ
HSM1009-R22M	0.22	21.5	60.0	0.66
HSM1009-R33M	0.33	21.5	55.0	0.66
HSM1009-R47M	0.47	20.5	47.0	0.88
HSM1009-R68M	0.68	20.0	38.0	1.49
HSM1009-R82M	0.82	20.0	36.0	1.49
HSM1009-1R0M	1.0	20.0	27.5	1.49
HSM1009-1R5M	1.5	18.0	27.0	2.75
HSM1009-2R2M	2.2	16.5	22.0	4.07
HSM1009-3R3M	3.3	14.0	15.5	5.94
HSM1009-4R7M	4.7	13.0	15.0	9.02
HSM1009-6R8M	6.8	11.5	11.0	14.52
HSM1009-8R2M	8.2	11.5	5.0	14.52
HSM1009-100M	10	9.0	8.0	22.77

PHYSICAL CHARACTERISTICS





WINDING



- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Rated Current(Irms) will cause the coil temperature rise Approximately ΔT=40℃ Max
- Isat(A) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
- Storage Temperature: -40℃ to +105℃
- All specifications subject to change without notice.

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SMD HIGH CURRENT POWER INDUCTORS

HSM1210 SERIES



FEATURES:

- High current and Low DCR
- Low profile for machine placement
- Min electromagnetic interference
- Prevent EMI effect via precise impedance
- Custom design available
- RoHS-compatible

APPLICATIONS:

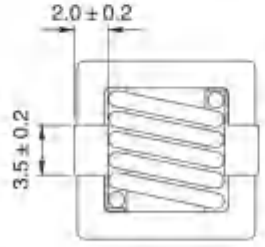
- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

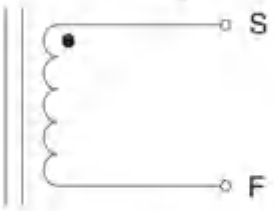
Part Number	L(uH) 100KHz,0.1V ±20%	Rated current Irms(A)	Saturation current Isat(A)	DCR (mΩ)Typ
HSM1210-R22M	0.22	27.0	60.0	0.58
HSM1210-R33M	0.33	27.0	55.0	0.58
HSM1210-R47M	0.47	26.0	48.0	0.79
HSM1210-R68M	0.68	26.0	38.0	0.79
HSM1210-R82M	0.82	24.0	36.0	1.29
HSM1210-1R0M	1.0	24.0	32.0	1.29
HSM1210-1R5M	1.5	19.5	27.0	2.31
HSM1210-2R2M	2.2	18.0	23.0	3.36
HSM1210-3R3M	3.3	17.0	17.0	4.84
HSM1210-4R7M	4.7	15.5	17.0	6.99
HSM1210-6R8M	6.8	13.0	13.0	9.88
HSM1210-8R2M	8.2	13.0	12.0	10.89
HSM1210-100M	10	9.0	10.0	15.84

PHYSICAL CHARACTERISTICS





WINDING



- Inductor Testing: HP4284A (Equivalent acceptable) DCR: WK3260B
- Rated Current(Irms) will cause the coil temperature rise Approximately ΔT=40℃ Max
- Isat(A) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
- Storage Temperature: -40℃ to +105℃
- All specifications subject to change without notice.

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SHIELDED SMD POWER INDUCTORS

SB0906 SERIES



FEATURES:

- Magnetic Shielded Surface Mount Inductor with High Current Rating
- Low Resistance to Keep Power Loss Minimum.

APPLICATIONS:

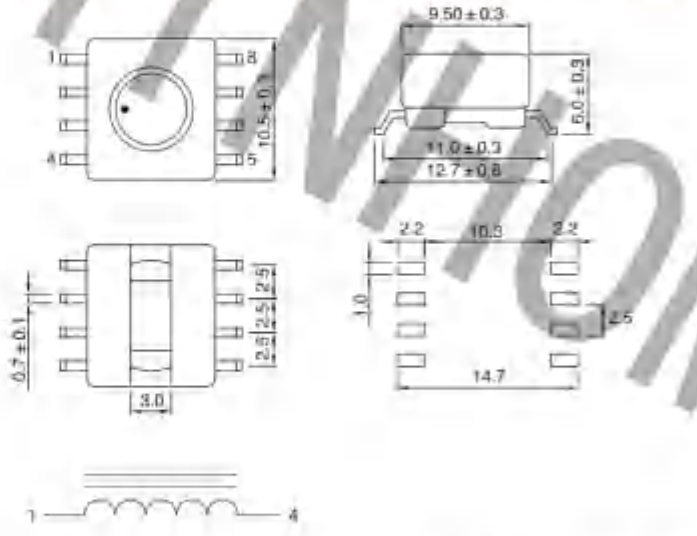
- Excellent for Power Line DC-DC Conversion
- Applications used in Hard disk, Notebook Computers and Other Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

Part Number SB0906	Inductance (μH)	Q min.	Test Freq. (Hz) L	Test Freq. (Hz) Q	SRF (MHz) min.	DCR (Ω) max.	IDC(A) max.
2R7M	2.70 ± 20%	23	1K	7.96 M	85.00	0.032	3.200
3R9M	3.90 ± 20%	23	1K	7.96 M	80.00	0.036	2.900
4R7M	4.70 ± 20%	23	1K	7.96 M	70.00	0.040	2.700
5R6M	5.60 ± 20%	23	1K	7.96 M	57.00	0.046	2.500
6R8M	6.80 ± 20%	23	1K	7.96 M	38.00	0.060	2.300
8R2M	8.20 ± 20%	23	1K	7.96 M	30.00	0.065	2.100
100M	10.00 ± 20%	35	1K	2.520 M	29.00	0.080	1.800
120M	12.00 ± 20%	35	1K	2.520 M	24.00	0.085	1.700
150M	15.00 ± 20%	35	1K	2.520 M	23.00	0.100	1.600
180M	18.00 ± 20%	35	1K	2.520 M	22.00	0.110	1.500
220M	22.00 ± 20%	35	1K	2.520 M	19.00	0.120	1.400
270M	27.00 ± 20%	35	1K	2.520 M	17.00	0.140	1.300
330M	33.00 ± 20%	35	1K	2.520 M	16.00	0.150	1.200
390M	39.00 ± 20%	35	1K	2.520 M	14.00	0.180	1.100
470M	47.00 ± 20%	35	1K	2.520 M	12.00	0.180	1.000
560M	56.00 ± 20%	35	1K	2.520 M	12.00	0.300	0.930
680M	68.00 ± 20%	40	1K	2.520 M	9.00	0.350	0.850
820M	82.00 ± 20%	40	1K	2.520 M	8.00	0.370	0.780
101Y	100.0 ± 15%	40	1K	0.796 M	7.50	0.420	0.700
120Y	120.0 ± 15%	40	1K	0.796 M	7.00	0.480	0.650
150Y	150.0 ± 15%	40	1K	0.796 M	6.00	0.550	0.600
180Y	180.0 ± 15%	40	1K	0.796 M	5.50	0.620	0.520

Part Number SB0906	Inductance (μH)	Q min.	Test Freq. (Hz) L	Test Freq. (Hz) Q	SRF (MHz) min.	DCR (Ω) max.	IDC(A) max.
221Y	220.0 ± 15%	40	1K	0.796 M	5.00	1.000	0.480
270Y	270.0 ± 15%	40	1K	0.796 M	5.00	1.100	0.440
331Y	330.0 ± 15%	40	1K	0.796 M	4.50	1.300	0.400
391Y	390.0 ± 15%	40	1K	0.796 M	4.20	1.400	0.380
471Y	470.0 ± 15%	40	1K	0.796 M	4.00	1.600	0.350
561Y	560.0 ± 15%	30	1K	0.796 M	3.50	2.700	0.310
681Y	680.0 ± 15%	80	1K	0.796 M	2.70	3.200	0.290
821Y	820.0 ± 15%	80	1K	0.796 M	2.60	3.600	0.270
102Y	1000.0 ± 15%	100	1K	0.252 M	2.30	4.00	0.220
122Y	1200.0 ± 15%	100	1K	0.252 M	2.10	4.40	0.200
152Y	1500.0 ± 15%	100	1K	0.252 M	2.00	5.20	0.180
182Y	1800.0 ± 15%	100	1K	0.252 M	1.70	7.00	0.170
222Y	2200.0 ± 15%	100	1K	0.252 M	1.50	8.50	0.160
272Y	2700.0 ± 15%	100	1K	0.252 M	1.40	9.20	0.140
332Y	3300.0 ± 15%	100	1K	0.252 M	1.30	11.0	0.120
392Y	3900.0 ± 15%	100	1K	0.252 M	1.20	15.0	0.110
472Y	4700.0 ± 15%	100	1K	0.252 M	1.00	19.0	0.100
562Y	5600.0 ± 15%	100	1K	0.252 M	0.90	21.0	0.090
682Y	6800.0 ± 15%	100	1K	0.252 M	0.90	24.0	0.090
822Y	8200.0 ± 15%	100	1K	0.252 M	0.80	31.0	0.080
103Y	10000.0 ± 15%	100	1K	79.60 K	0.70	38.0	0.070

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:



- Materials:
  1. Core: Ferrite DR Core & RI Core
  2. Wire: Enamelled Copper Wire
  3. Base: LCP E4006
  4. Terminal: Tinned Copper Plate
  5. Adhesive: Epoxy Resin
- General Specification:
  1. Storage Temperature: −40℃ ~ +125℃
  2. Operation Temperature: −40℃ ~ +105℃
  3. Rated Current: Base on Temperature & L/L0A=10%max.
  4. Resistance to solder heat: 260℃, 10 secs.

Note:All specifications subject to change without notice.

SHIELDED SMD POWER INDUCTORS

SB0908 SERIES



FEATURES:

- Magnetic Shielded Surface Mount Inductor with High Current Rating
- Low Resistance to Keep Power Loss Minimum.

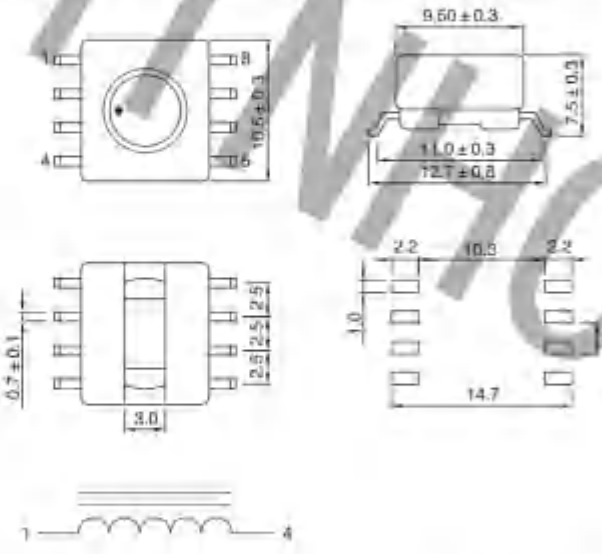
APPLICATIONS:

- Excellent for Power Line DC-DC Conversion
- Applications used in Harddisk, Notebook Computers and Other Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

Part Number SB0908	Inductance (μH)	Q ref.	Test Freq. (Hz) L	Q	SRF (MHz) nom.	DCR (Ω) max.	IDC(mA) max.	Part Number SB0908	Inductance (μH)	Q ref.	Test Freq. (Hz) L	Q	SRF (MHz) nom.	DCR (Ω) max.	IDC(mA) max.
1R5M	1.50 ± 20%	20	1K	7.960 M	65.0	0.014	5600	151Y	150.00 ± 15%	45	1K	0.796 M	4.60	0.450	800
2R7M	2.70 ± 20%	20	1K	7.960 M	50.0	0.019	4800	181Y	180.00 ± 15%	35	1K	0.796 M	4.20	0.500	700
3R9M	3.90 ± 20%	20	1K	7.960 M	35.0	0.021	4400	221Y	220.00 ± 15%	85	1K	0.796 M	3.80	0.600	650
5R6M	5.60 ± 20%	18	1K	7.960 M	25.0	0.027	3800	271Y	270.00 ± 15%	30	1K	0.796 M	3.40	0.700	600
7R5M	7.50 ± 20%	18	1K	7.960 M	15.0	0.032	3400	331Y	330.00 ± 15%	30	1K	0.796 M	3.00	0.800	550
100M	10.00 ± 20%	33	1K	2.520 M	11.0	0.040	3000	391Y	390.00 ± 15%	33	1K	0.796 M	2.60	1.000	500
120M	12.00 ± 20%	40	1K	2.520 M	11.0	0.050	2500	471Y	470.00 ± 15%	30	1K	0.796 M	2.30	1.050	450
150M	15.00 ± 20%	45	1K	2.520 M	8.50	0.065	2200	561Y	560.00 ± 15%	35	1K	0.796 M	2.20	1.500	360
180M	18.00 ± 20%	40	1K	2.520 M	8.50	0.075	2000	681Y	680.00 ± 15%	30	1K	0.796 M	2.00	1.700	350
220M	22.00 ± 20%	35	1K	2.520 M	6.00	0.080	1900	821Y	820.00 ± 15%	35	1K	0.796 M	1.90	2.300	320
270M	27.00 ± 20%	45	1K	2.520 M	6.00	0.090	1800	102Y	1000.00 ± 15%	85	1K	0.252 M	1.80	2.500	300
330M	33.00 ± 20%	40	1K	2.520 M	5.00	0.100	1700	152Y	1500.00 ± 15%	120	1K	0.252 M	1.30	4.000	250
390M	39.00 ± 20%	45	1K	2.520 M	5.00	0.135	1500	202Y	2000.00 ± 15%	95	1K	0.252 M	1.00	5.000	200
470M	47.00 ± 20%	40	1K	2.520 M	4.00	0.150	1400	252Y	2500.00 ± 15%	95	1K	0.252 M	0.90	8.000	150
560M	56.00 ± 20%	35	1K	2.520 M	3.00	0.165	1350	472Y	4700.00 ± 15%	90	1K	0.252 M	0.80	12.00	120
680M	68.00 ± 20%	30	1K	2.520 M	2.50	0.184	1250	682Y	6800.00 ± 15%	90	1K	0.252 M	0.60	16.50	100
820M	82.00 ± 20%	30	1K	2.520 M	2.40	0.260	1050	822Y	8200.00 ± 15%	85	1K	0.252 M	0.50	24.00	97
101Y	100.00 ± 15%	40	1K	0.796 M	6.00	0.250	1000	103Y	10000.00 ± 15%	110	1K	79.60 K	0.30	26.00	95
121Y	120.00 ± 15%	42	1K	0.796 M	5.70	0.340	900	153Y	15000.00 ± 15%	130	1K	79.60 K	0.40	40.00	75

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:



- Materials:
  1. Core: Ferrite DR Core & RI Core
  2. Wire: Enamelled Copper Wire
  3. Base: LCP E4008
  4. Terminal: Tinned Copper Plate
  5. Adhesive: Epoxy Resin
- General Specification:
  1. Storage Temperature: −40℃ ~ +125℃
  2. Operation Temperature: −40℃ ~ +105℃
  3. Rated Current: Base on Temperature & ΔL/L0A=10%max
  4. Resistance to solder heat: 260℃,10 secs.

Note:All specifications subject to change without notice.

SMT POWER INDUCTOR

SMB0808B SERIES



FEATURES:

- SMD inductors
- High current and lower DCR
- Ferrite core material
- Shielded construction
- Operating Temperature: -40℃ to +125℃

APPLICATIONS:

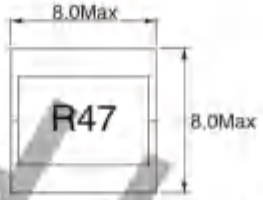
- Servers
- Multi-phase and Vcore regulators
- Notebook regulators
- Battery power systems
- Graphics cards

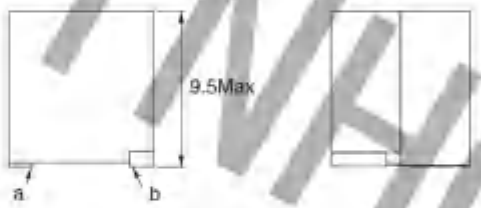
ELECTRICAL CHARACTERISTICS:

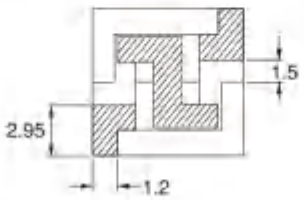
Part No.	Marking	OCL (nH) ± 10%	DCR (mΩ) ±15%	Irms (A) @25℃	Isat1 (A) @25℃
SMB0808B-R30K	R30	300	0.8	28	60
SMB0808B-R40K	R40	400	0.8	28	45
SMB0808B-R47K	R47	470	0.8	28	36
SMB0808B-R60K	R60	600	0.8	28	29
SMB0808B-R80K	R80	800	0.8	28	22
SMB0808B-1R0K	1R0	1000	0.8	28	15

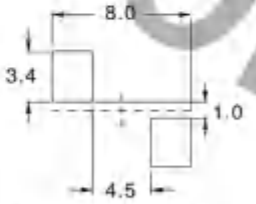
1. Open Circuit Inductance (OCL) test condition:100KHz,1Vrms,0Adc ,at 25℃
2. Irms: DC current for an approximate temperature rise of 40 ℃ without coreloss. Derating is necessary for AC currents. PCB layout, trace thickness andwidth, air-flow, and proximity of other heat generating components will affect thetemperature rise. It is recommended that the temperature of the part not exceed+125 ° C under worst case operating conditions verified in the end application.
3. Isat : Peak current for approximately 20% rolloff @+25 ℃
4. Marking: Denotes inductance
5. Tolerance: OCL Tolerance: K= ± 10% / L= ± 15% / M= ± 20%Measurement Equipment: WK3260B+WK3265B (or equivalent)

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

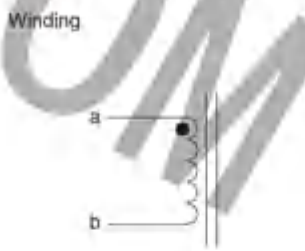








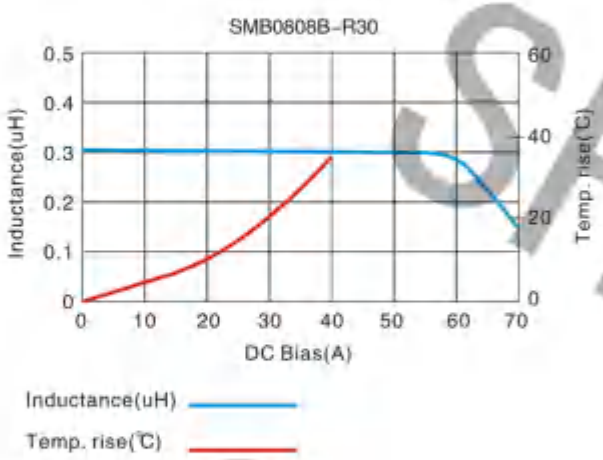
Suggested Pad Layout

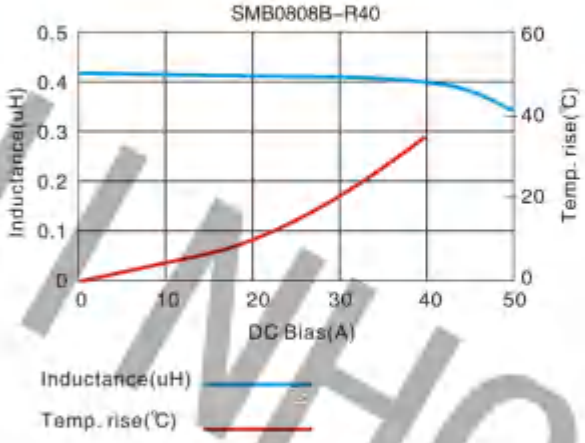


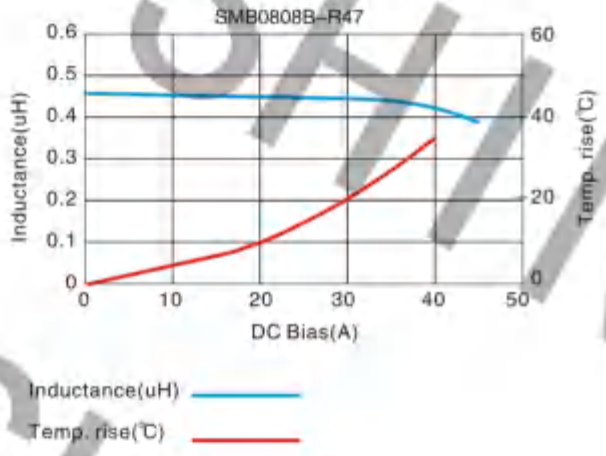
- Operating Temperature: -40℃ to +125℃ (Ambient plus self temperature rise)
- Storage Temperature: In Original Packaging, <40℃ ; <75%RH
- Moisture Sensitivity Level (MSL): 1
- Packaging: 500 pcs , 13" Reel

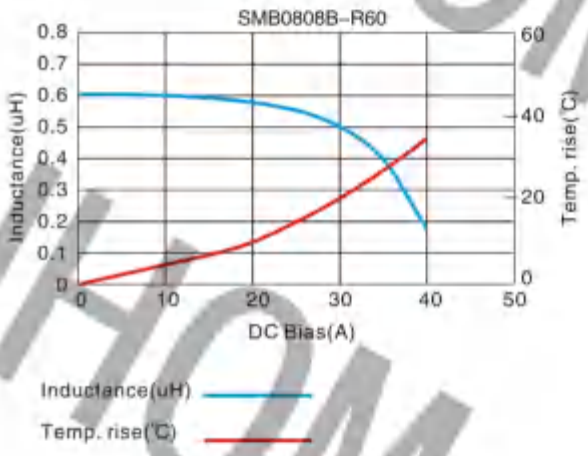
SHINHOM

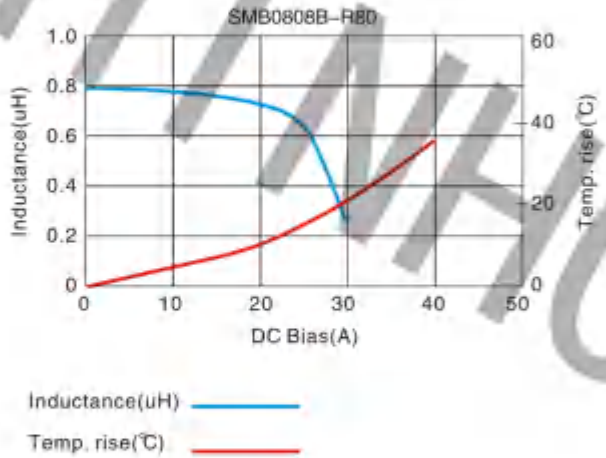
CURRENT VS INDUCTANCE & TEMPERATURE RISE:

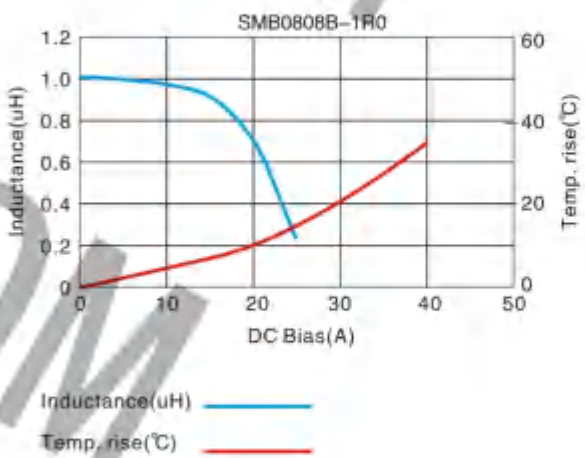












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SMT POWER INDUCTOR

SMB1007B SERIES



FEATURES:

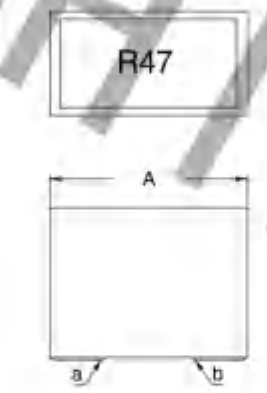
- Ferrite based SMT inductor with lower core loss.
- Inductance Range: 330.0nH to 1600.0nH, Custom values are welcomed.
- High current output chokes, up to 65.0 Amp with approx. 20% roll off
- 10.00 mm Max. height.
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range –55℃ to + 130℃ , RoHs & HF compliance .
- T & R Qtys: 400 pcs , 13" Reel ;

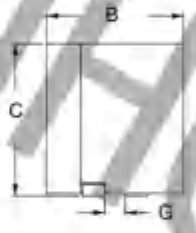
ELECTRICAL CHARACTERISTICS:

Part No.	OCL (nH) ±15%	L@ Isat1 (nH) Min	DCR (mΩ) ±10%	Isat1 (A) @25℃	Isat2 (A) @75℃	Isat3 (A) @100℃	Irms (A) @25℃	Dim. B Max
SMB1007B-R33L	330	231	0.81	65	58	53	30	7.3
SMB1007B-R47L	470	329	0.81	48	40	38	30	7.0
SMB1007B-R68L	680	476	0.81	34	31	29	30	7.0
SMB1007B-R82L	820	574	0.81	28	25	23	30	7.0
SMB1007B-1R0L	1000	700	0.81	23	19	18	30	7.0
SMB1007B-1R2L	1200	840	0.81	20	17	15	30	7.0
SMB1007B-1R4L	1400	980	0.81	16	14	13	30	7.0
SMB1007B-1R6L	1600	1120	0.81	14	13	12	30	7.0

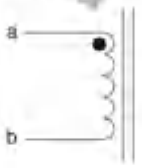
1. Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25℃
2. L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms(Ta=25℃)
3. The nominal DCR is measured from point "a" to point "b, as shown above on the mechanical drawing (Ta=25℃)
4. Isat1,Isat2 , & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40℃ without core loss . Derating is necessary for AC currents. PCB pad layout , trace thickness and width , air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130℃ under worst case operating conditions verified in the end application.

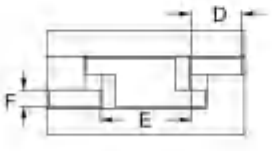
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

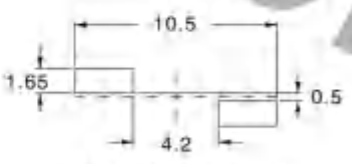




Winding







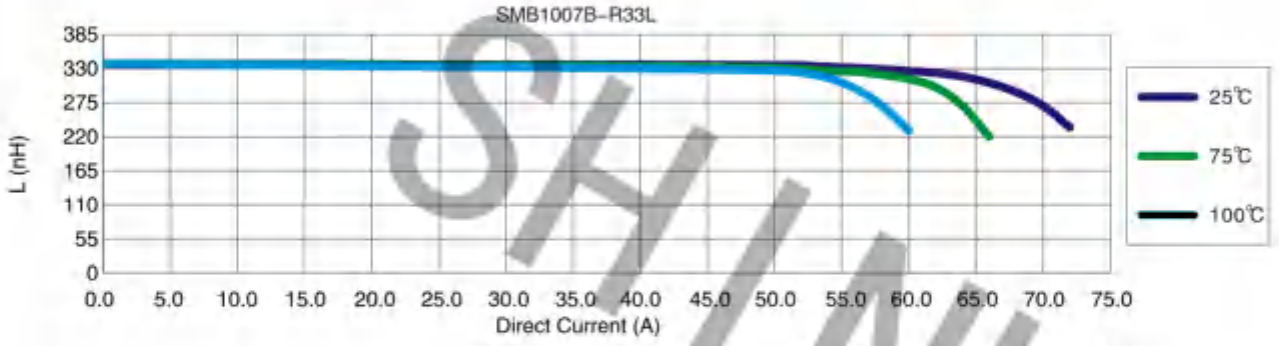
Suggested Pad Layout

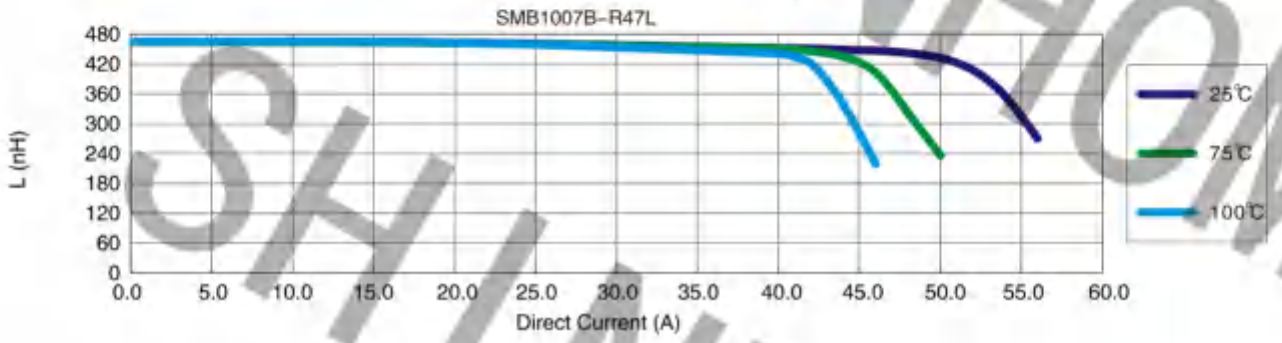
Mechanical Dimension(Unit : mm)

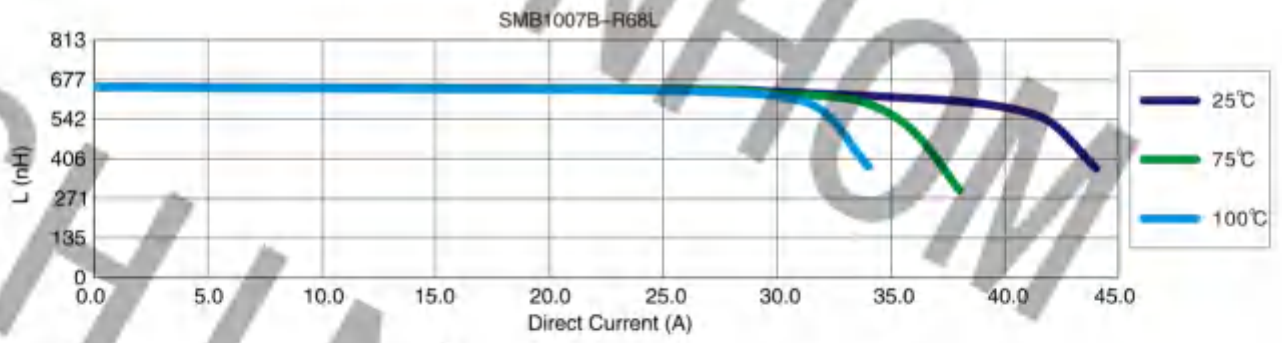
A Max	B Max	C Max	D ±0.35	E Nom	F ±0.2	G ±0.3
10.0	see above table	10.0	2.5	4.5	1.1	1.0

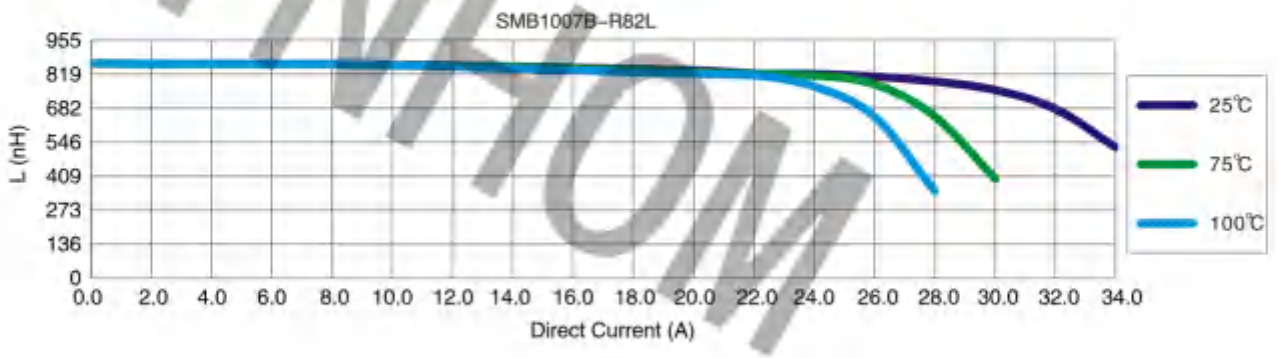
SHINHOM

CURRENT VS INDUCTANCE:



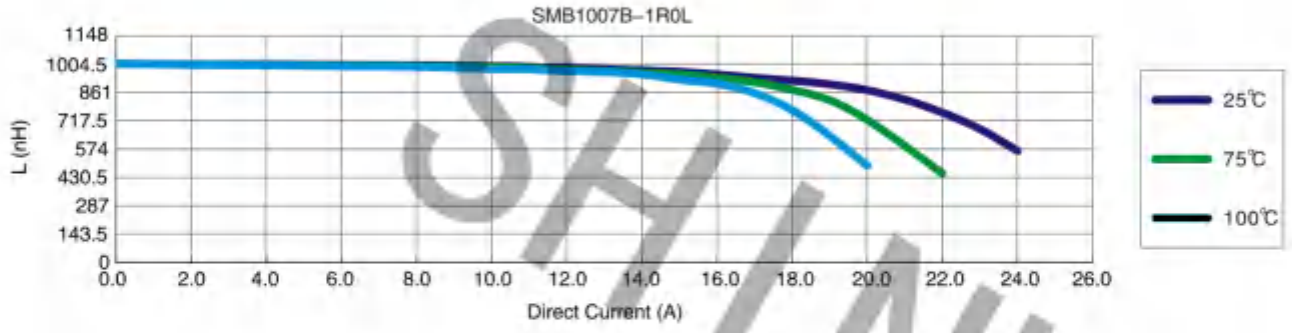


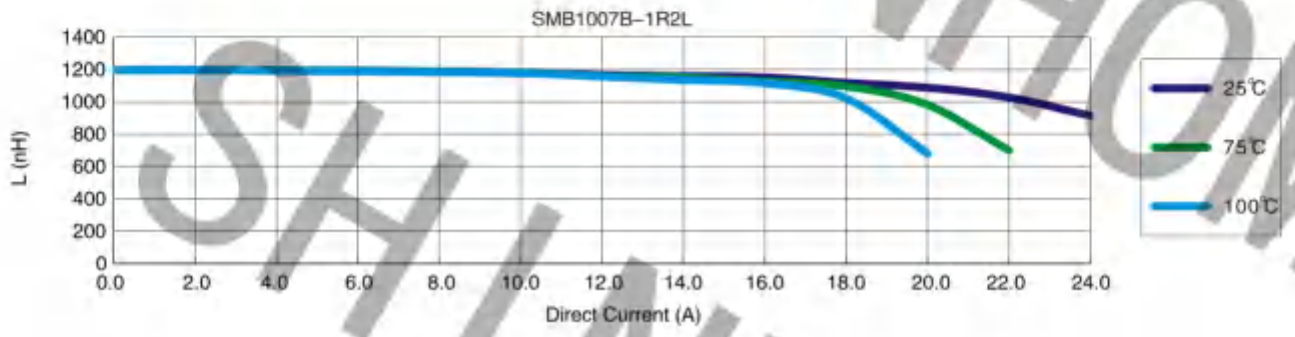


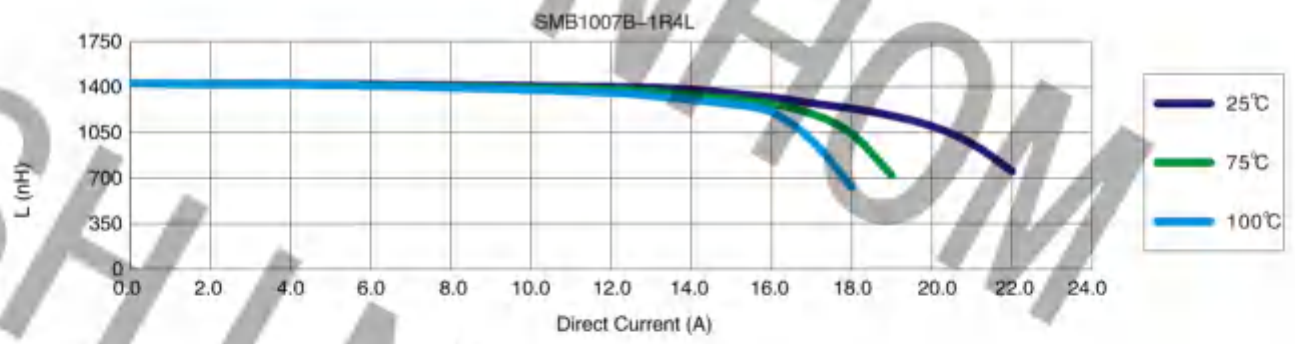


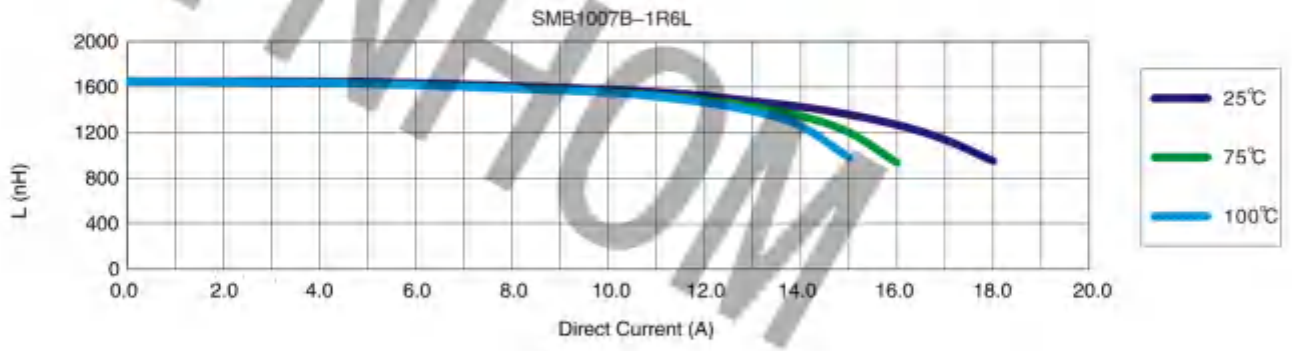
SHINHOM

CURRENT VS INDUCTANCE:









SHINHOM SHINHOM SHINHOM

SMT SHIELDED POWER INDUCTOR

SMB100710 SERIES



FEATURES:

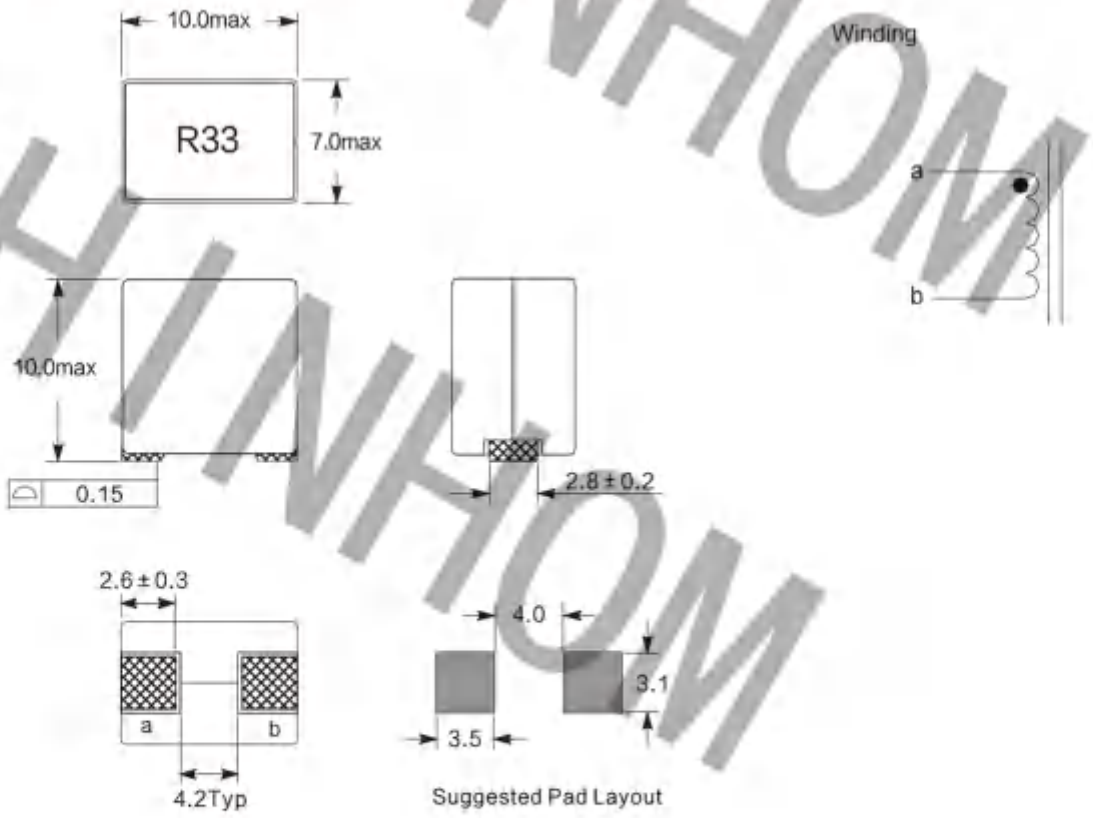
- Tight DCR tolerance for inductor-DCR-based current sensing circuits
- Excellent current handling
- 10x 7x 10 (Lx W x H) mm surface mount package
- Designed for use in multi-phase VRM/VRD/EVRD regulators
- Storage temperature: -40℃ to +145℃
- Operating temperature: -40℃ to +145℃(ambient + temp rise)
- RoHS compliant
- Packaging 400/13" reel

ELECTRICAL CHARACTERISTICS:

Part No.	OCL (nH)	SRF (MHz)typ	DCR (mΩ) ±10%	Isat1 (A) @25℃	Isat2 (A) @100℃	Isat3 (A) @125℃	Irms (A) 20℃ rise	Irms (A) 40℃ rise
SMB100710-R10K	100 ± 10%	222	0.17	113	100	90	72	92
SMB100710-R12K	120 ± 10%	159	0.17	98	84	80	72	92
SMB100710-R15K	150 ± 10%	150	0.17	75	65	60	72	92
SMB100710-R20K	200 ± 10%	85	0.17	62	46	42	72	92
SMB100710-R25K	250 ± 10%	88	0.17	44	36	32	72	92
SMB100710-R33L	330 ± 15%	50	0.17	32	26	22	72	92

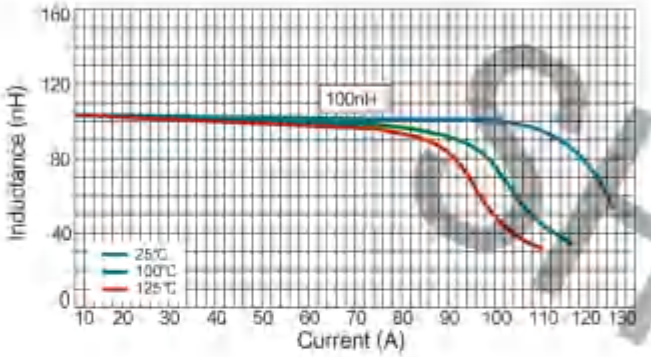
1. Inductance at 100 kHz, 0.1 Vrms, 0 Adc.
2. DC current that causes an inductance drop of 20% (typ) from its valuewithout current.
3. Electrical specifications at 25℃

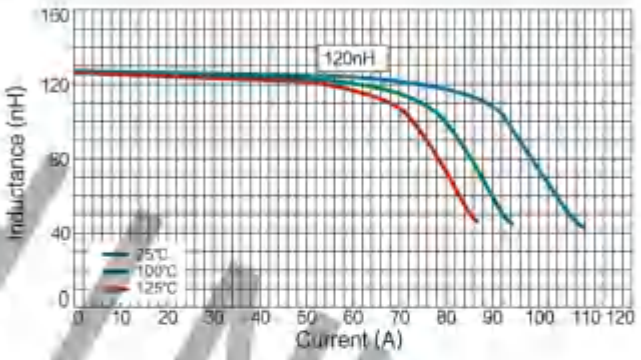
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

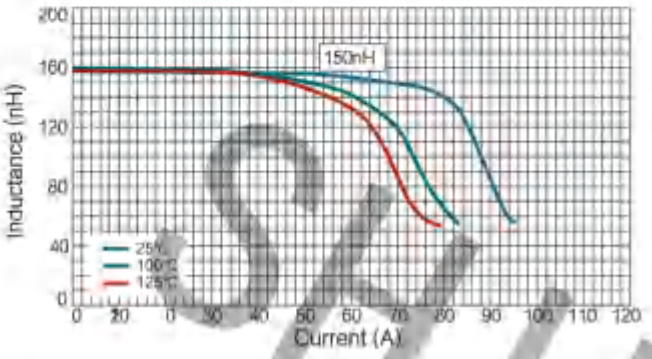


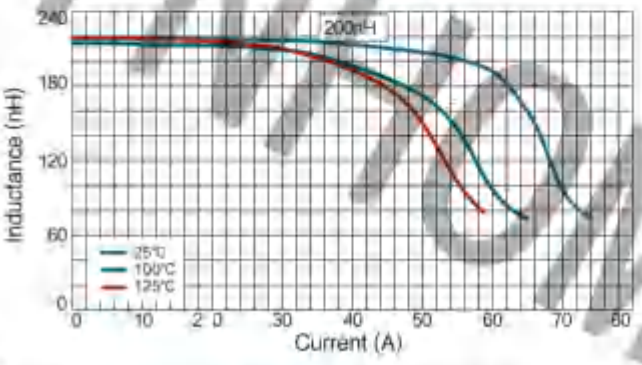
SHINHOM

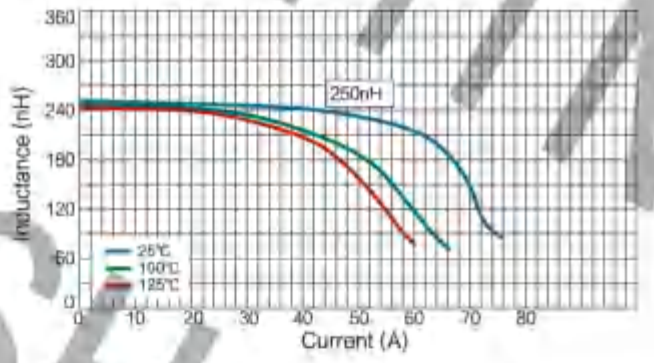
INDUCTANCE VS CURRENT:

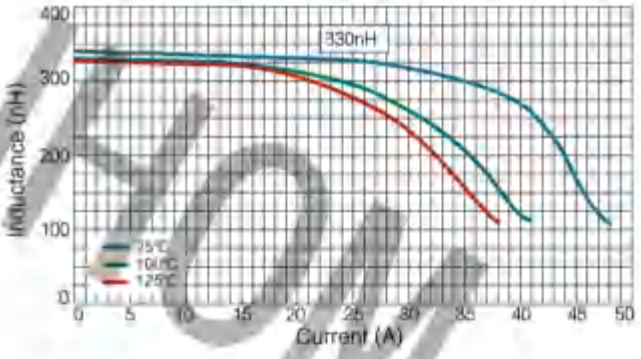




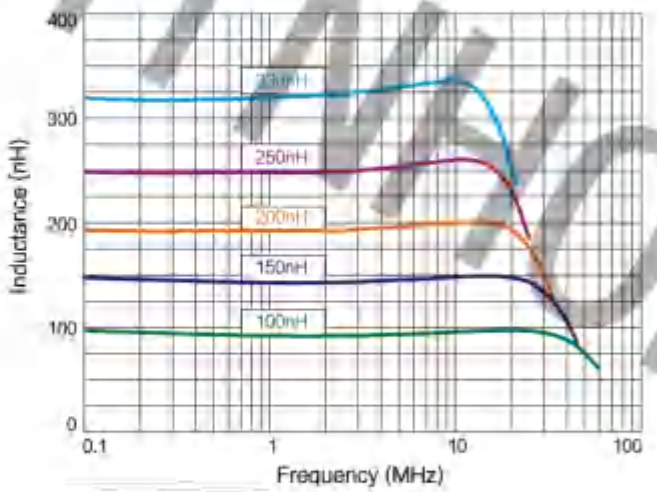








INDUCTANCE VS FREQUENCY:



MOLDING TYPE POWER INDUCTOR
HM0808A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

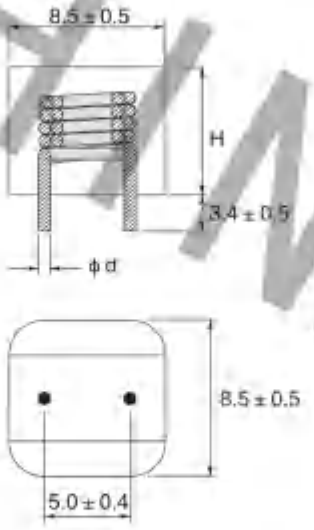
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.2	DCR(mΩ) Typ	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ
HM0808A-R00M	0.1Max	8.0	0.9	0.43	0.52	—	—
HM0808A-R10M	0.1	8.0	0.9	0.90	1.10	29.0	50.0
HM0808A-R33M	0.33	8.0	0.9	1.20	1.45	24.5	38.0
HM0808A-R36M	0.36	8.0	0.9	1.20	1.45	24.5	30.0
HM0808A-R47M	0.47	8.0	0.9	2.00	2.40	19.0	30.0
HM0808A-R56M	0.56	8.0	0.9	2.00	2.40	19.0	28.0
HM0808A-R68M	0.68	8.0	0.8	3.00	3.60	15.5	25.0
HM0808A-R80M	0.80	8.0	0.8	3.50	4.10	15.5	23.0
HM0808A-1R0M	1.0	8.0	0.8	3.50	4.10	14.5	21.0
HM0808A-1R2M	1.2	8.0	0.8	3.50	4.10	14.5	21.0
HM0808A-1R5M	1.5	8.0	0.7	5.80	7.00	11.5	18.0
HM0808A-2R2M	2.2	8.0	0.7	7.50	9.00	10.0	16.0
HM0808A-2R8M	2.8	8.0	0.7	8.50	10.2	9.5	15.0
HM0808A-3R3M	3.3	8.0	0.7	9.00	11.0	9.2	14.0
HM0808A-4R7M	4.7	8.0	0.7	12.0	14.5	8.0	12.0

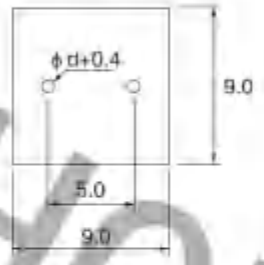
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms.
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM0808B SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

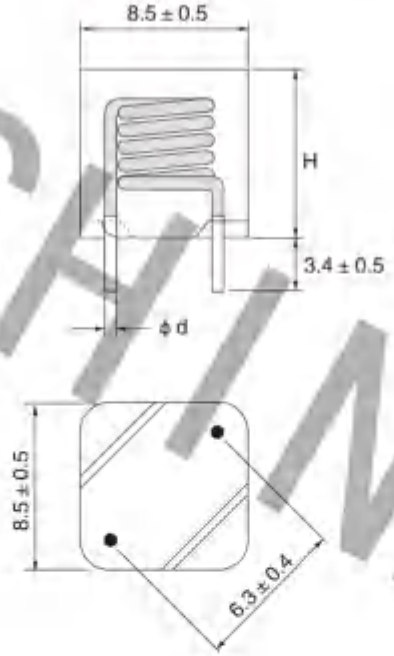
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.1	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HM0808B-R27M	0.27	8.0	1.0	1.0	1.2	27.5	40.0
HM0808B-R33M	0.33	8.0	1.0	1.0	1.2	27.5	40.0
HM0808B-R47M	0.47	8.0	1.0	1.6	1.9	22.0	40.0
HM0808B-R60M	0.60	8.0	1.0	1.6	1.9	22.0	34.0
HM0808B-1R0M	1.0	8.0	0.9	2.7	3.1	17.0	21.0
HM0808B-2R2M	2.2	8.0	0.7	6.5	7.5	11.5	16.0
HM0808B-4R7M	4.7	8.5	0.7	12.0	14.5	8.0	12.0

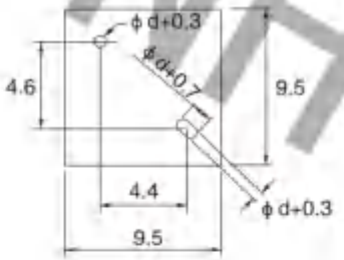
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

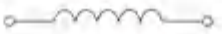
Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1009A/1211A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

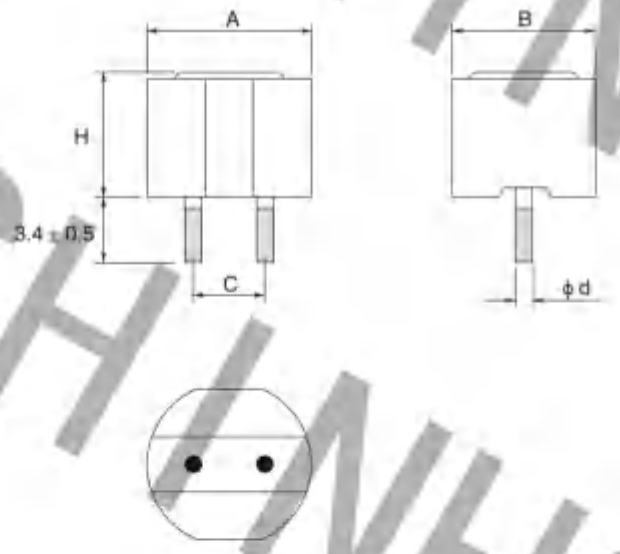
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ	A (mm)Max	B (mm)Max	C (mm)Max	H (mm)Max	ϕd (mm) ± 0.1
HM1009A-100M	10	22	7	9	11.0	9.9	5.0	11.0	0.6
HM1009A-220M	22	33	7	5.5	11.0	9.9	5.0	13.0	0.6
HM1009A-330M	33	60	4.5	5.5	11.0	9.9	5.0	13.0	0.6
HM1211A-100M	10	13	12	14	13.0	11.9	6.0	15.0	0.8
HM1211A-150M	15	17	11	8	13.0	11.9	6.0	15.0	0.8
HM1211A-220M	22	21	10	6	13.0	11.9	6.0	15.0	0.8

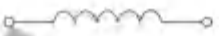
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Winding



1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1010B SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

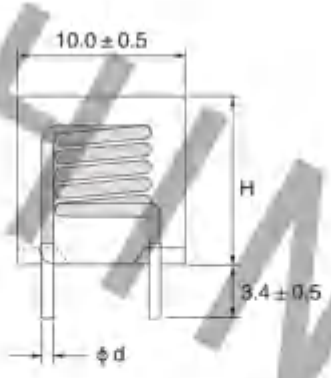
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.1	DCR(mΩ) Typ	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ
HM1010B-R15M	0.15	9.0	1.5	0.45	0.6	45.0	60.0
HM1010B-R22M	0.22	9.0	1.5	0.45	0.6	45.0	60.0
HM1010B-R33M	0.33	10.0	1.5	0.6	0.8	40.0	50.0
HM1010B-R36M	0.36	10.0	1.5	0.6	0.8	40.0	50.0
HM1010B-R39M	0.39	10.0	1.5	0.6	0.8	40.0	50.0
HM1010B-R47M	0.47	10.0	1.5	0.8	1.0	35.0	45.0
HM1010B-R56M	0.56	10.0	1.5	0.8	1.0	35.0	45.0
HM1010B-R60M	0.60	10.0	1.5	0.8	1.0	35.0	40.0
HM1010B-R80M	0.80	10.0	1.4	1.1	1.3	30.0	40.0
HM1010B-1R0M	1.0	10.0	1.2	1.5	1.8	25.0	35.0
HM1010B-1R5M	1.5	10.0	1.0	2.7	3.0	20.0	30.0
HM1010B-2R2M	2.2	10.0	1.0	3.7	4.0	17.0	30.0

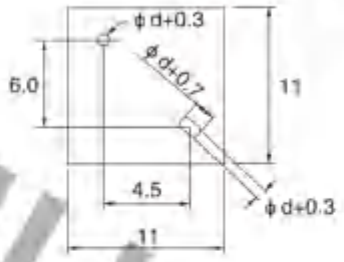
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)

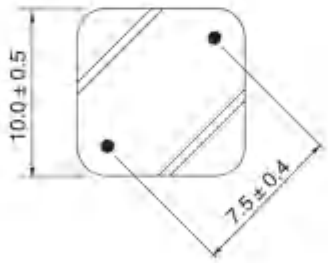


Recommended layout(mm)



Winding





1. All test Data is referenced to 25°C ambient.
2. Inductance test frequency 200kHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER
4. Irms will cause the coil temperature rise Approximately ΔT=40°C without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
7. Operating Temperature & Storage Temperature: –40°C ~ +125°C.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1109B SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

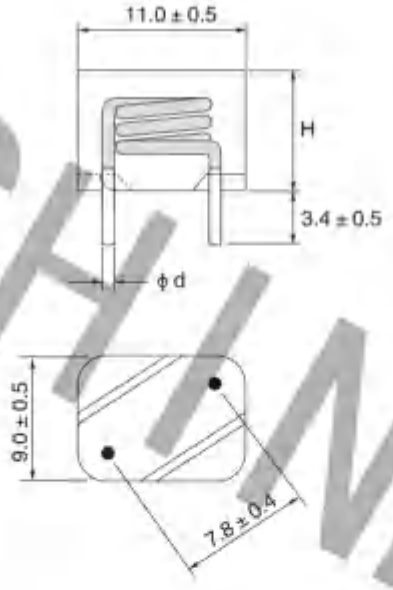
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	ϕd (mm) ± 0.2	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HM1109B-R25M	0.25	8.5	1.5	0.6	0.72	36.0	50.0
HM1109B-R30M	0.3	8.5	1.5	0.6	0.72	36.0	45.0
HM1109B-R56M	0.56	10.0	1.5	0.8	1.0	33.0	38.0
HM1109B-R60M	0.6	10.0	1.5	0.9	1.1	31.0	38.0
HM1109B-1R5M	1.5	10.0	1.0	3.0	3.5	17.0	30.0
HM1109B-2R2M	2.2	10.0	1.0	3.3	4.0	16.5	21.0

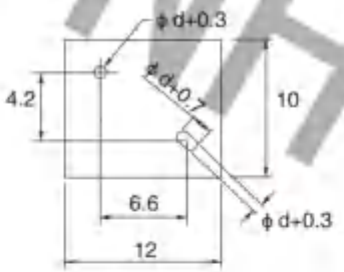
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

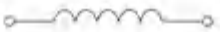
Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: –40℃ – +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR

HM1111B SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

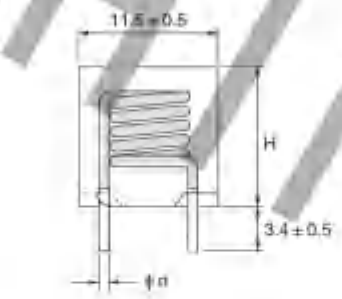
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.1	E (mm) ± 0.4	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
					Typ	Max		
HM1111B-R25M	0.25	10.0	1.5	8.5(1)	0.5	0.6	42.0	60.0
HM1111B-R27M	0.27	10.0	1.5	8.5(1)	0.65	0.78	38.0	60.0
HM1111B-R30M	0.30	10.0	1.5	8.5(1)	0.65	0.78	38.0	60.0
HM1111B-R39M	0.39	10.0	1.5	8.5(1)	0.65	0.78	38.0	50.0
HM1111B-R47M	0.47	10.0	1.5	8.5(1)	0.65	0.78	38.0	50.0
HM1111B-R56M	0.56	10.0	1.5	8.5(1)	0.85	1.0	32.0	50.0
HM1111B-R60M	0.60	10.0	1.5	8.5(1)	0.85	1.0	32.0	45.0
HM1111B-R68M	0.65	10.0	1.5	8.5(1)	0.85	1.0	32.0	40.0
HM1111B-R80M	0.80	10.0	1.4	8.5(1)	1.2	1.45	27.0	40.0
HM1111B-1R0M	1.0	10.0	1.2	9.0(2)	1.5	1.60	25.0	40.0
HM1111B-1R2M	1.2	10.5	1.2	9.0(2)	2.0	2.4	21.0	40.0
HM1111B-1R5M	1.5	10.5	1.2	9.0(2)	2.0	2.4	21.0	35.0
HM1111B-1R8M	1.8	10.5	1.0	9.3(3)	3.5	4.2	15.0	35.0
HM1111B-2R0M	2.0	10.5	1.0	9.3(3)	3.5	4.2	16.0	30.0
HM1111B-2R2M	2.2	10.5	1.0	9.3(3)	3.5	4.2	16.0	30.0
HM1111B-2R5M	2.5	10.5	0.9	9.3(3)	4.3	4.7	14.0	25.0
HM1111B-3R3M	3.3	10.5	0.9	9.3(3)	6.0	7.2	12.0	25.0

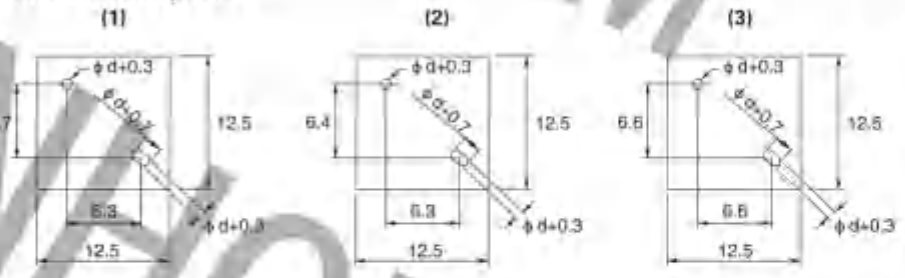
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

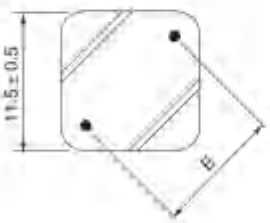
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Recommended layout(mm)





Winding



1. All Isat Data is referenced to 25°C ambient.
2. Inductance test frequency 200KHz,0.1Vrms.
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent3420A Micm OHMMETER.
4. Irms will cause the coil temperature rise Approximately ΔT=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1210A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

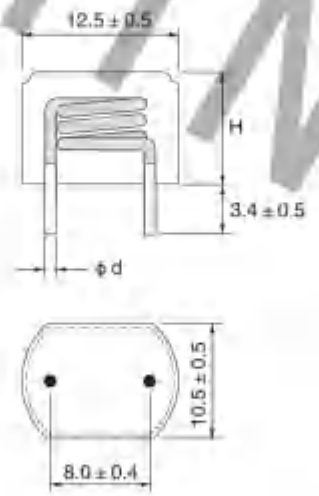
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.1	DCR(mΩ) Typ	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ
HM1210A-R22M	0.22	7.5	1.4	0.5	0.6	38.0	56.0
HM1210A-R25M	0.25	8.6	1.4	0.5	0.6	38.0	50.0
HM1210A-R27M	0.27	8.6	1.4	0.5	0.6	38.0	49.0
HM1210A-R30M	0.30	8.6	1.4	0.7	0.85	33.0	48.0
HM1210A-R33M	0.33	8.6	1.4	0.7	0.85	33.0	48.0
HM1210A-R39M	0.39	8.6	1.4	0.7	0.85	33.0	45.0
HM1210A-R47M	0.47	10.0	1.5	0.85	1.0	30.0	40.0
HM1210A-R56M	0.56	10.0	1.5	0.85	1.0	30.0	40.0
HM1210A-R68M	0.68	10.0	1.5	0.85	1.0	30.0	40.0
HM1210A-R80M	0.80	10.0	1.4	1.3	1.5	26.0	36.0
HM1210A-1R0M	1.0	10.0	1.2	1.75	2.1	21.0	32.0
HM1210A-1R2M	1.2	10.0	1.2	1.75	2.1	21.0	32.0
HM1210A-1R5M	1.5	10.0	1.0	3.0	3.6	16.0	30.0
HM1210A-2R0M	2.0	10.0	1.0	3.85	4.6	15.0	24.0
HM1210A-2R2M	2.2	10.0	1.0	4.3	5.2	13.6	24.0
HM1210A-2R8M	2.8	10.0	0.9	5.6	6.7	12.3	20.0
HM1210A-3R3M	3.3	10.0	0.8	6.8	8.1	11.2	16.0
HM1210A-4R7M	4.7	10.0	0.8	8.8	10.5	10.0	15.0
HM1210A-8R2M	8.2	11.0	0.8	12.0	14.0	8.5	10.0

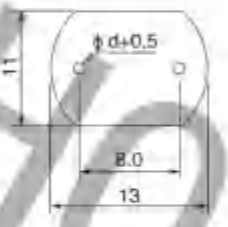
Note:1. K=± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

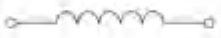
Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25 Cambient
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Dcr: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

MOLDING TYPE POWER INDUCTOR
HM1312B SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

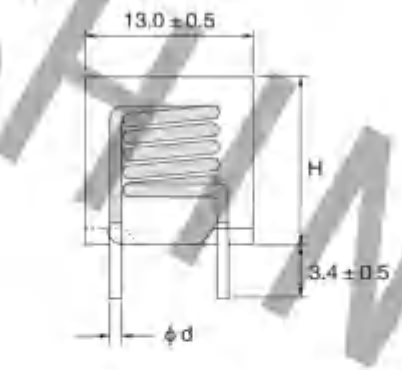
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.1	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HM1312B-R22M	0.22	9.0	1.7	0.4	0.5	45.0	60.0
HM1312B-R33M	0.33	9.0	1.7	0.55	0.7	40.0	56.0
HM1312B-R39M	0.39	9.0	1.7	0.55	0.7	39.0	55.0
HM1312B-R47M	0.47	9.0	1.7	0.6	0.7	38.0	54.0
HM1312B-R56M	0.56	9.0	1.7	0.6	0.7	38.0	52.0
HM1312B-R60M	0.60	10.0	1.7	0.8	1.0	35.0	50.0
HM1312B-R68M	0.68	10.0	1.7	0.8	1.0	35.0	50.0
HM1312B-R80M	0.80	10.0	1.7	0.8	1.0	33.0	46.0
HM1312B-1R0M	1.0	10.0	1.5	1.1	1.3	30.0	40.0
HM1312B-1R2M	1.2	10.0	1.5	1.2	1.45	28.0	40.0
HM1312B-1R5M	1.5	11.0	1.5	1.45	1.75	25.0	38.0
HM1312B-2R0M	2.0	11.0	1.2	2.65	3.2	18.0	35.0
HM1312B-2R2M	2.2	11.0	1.2	2.65	3.2	18.0	35.0

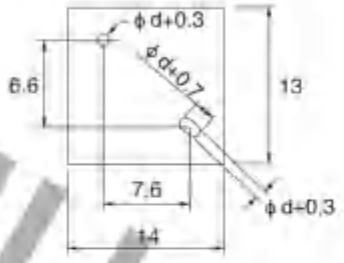
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

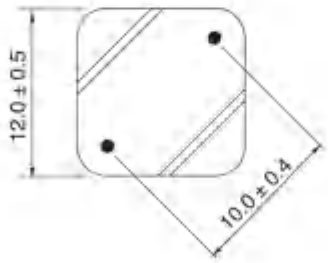
Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25 Cambient.
2. Inductance test frequency 200kHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1315A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

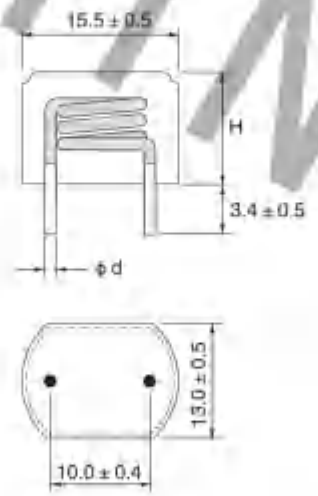
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.2	DCR(mΩ)		Irms(A) Typ	Isat(A) Typ
				Typ	Max		
HM1315A-R33M	0.33	9.5	1.7	0.6	0.7	37.0	60.0
HM1315A-R39M	0.39	9.5	1.7	0.6	0.7	37.0	54.0
HM1315A-R47M	0.47	9.5	1.7	0.65	0.75	36.0	50.0
HM1315A-R56M	0.56	9.5	1.7	0.65	0.75	36.0	50.0
HM1315A-R68M	0.68	11.0	1.7	0.78	0.94	34.0	48.0
HM1315A-R80M	0.80	11.0	1.7	0.86	1.0	32.0	45.0
HM1315A-R90M	0.90	11.0	1.7	0.66	1.0	32.0	45.0
HM1315A-1R0M	1.0	11.0	1.5	1.15	1.4	27.0	40.0
HM1315A-1R2M	1.2	11.0	1.5	1.2	1.45	26.0	40.0
HM1315A-1R5M	1.5	11.0	1.5	1.5	1.8	23.5	35.0
HM1315A-2R2M	2.2	11.0	1.3	2.1	2.5	20.0	32.0
HM1315A-3R3M	3.3	11.0	1.2	3.1	3.7	16.5	30.0
HM1315A-4R7M	4.7	11.0	1.0	6.0	7.2	12.0	24.0
HM1315A-100M	10.0	11.0	1.0	10.0	12.0	9.0	12.0
HM1315A-150M	15.0	11.0	0.8	17.0	21.0	6.8	10.0
HM1315A-220M	22.0	11.0	0.8	20.0	24.0	6.5	9.5
HM1315A-270M	27.0	11.0	0.7	30.0	36.0	5.5	9.0
HM1315A-330M	33.0	11.0	0.65	36.0	43.0	5.0	8.0
HM1315A-470M	47.0	11.0	0.65	46.0	56.0	4.5	8.0

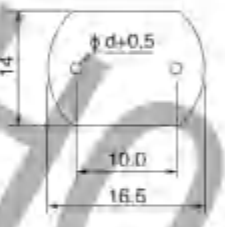
Note:1. K=± 10%,M=± 20%,N=± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

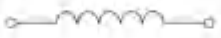
Dimensions(mm)



Recommended layout(mm)



Winding



1. All test Data is referenced to 25 Cambient
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

MOLDING TYPE POWER INDUCTOR
HM1616A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

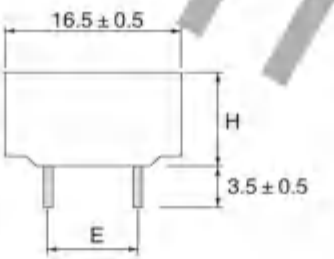
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.2	E (mm) ± 0.5	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ
HM1616A-220M	22	16.0	1.2	9.5	15	13	16
HM1616A-750M	75	19.0	1.0	12.0	40	8	10
HM1616A-101M	100	16.0	0.9	9.5	48	8	10

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)





Winding





1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM SHINHOM SHINHOM

MOLDING TYPE POWER INDUCTOR
HM1818A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

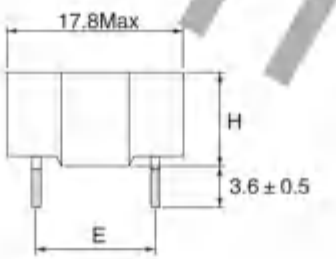
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	H (mm)Max	φd (mm) ± 0.2	E (mm) ± 0.5	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ
HM1818A-3R3M	3.3	10.0	1.5	13.2	3.0	17	30
HM1818A-4R7M	4.7	10.0	1.5	13.2	3.0	17	30
HM1818A-100M	10.0	10.9	1.4	13.5	5.0	15	18
HM1818A-330M	33.0	12.0	0.9	13.5	21.0	9.5	12

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

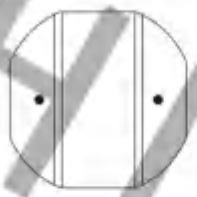
Dimensions(mm)





Winding





1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM

MOLDING TYPE POWER INDUCTOR
HM2222A/2828A/3333A SERIES



FEATURES:

- High current rating
- Hing frequency range up to 1.0MHZ
- Very low DC resistance
- Shielded construction
- All series of product are Halogen-free and ROHS compliant

APPLICATIONS:

- Motherboards for laptop and desktop computers
- DC/DC converter in distributed power systems or VRM applications
- Inductor for general purpose use

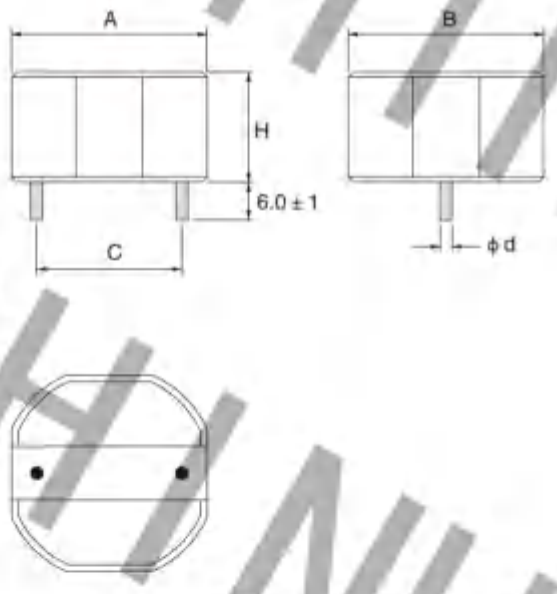
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) μH ± 20%	DCR(mΩ) Max	Irms(A) Typ	Isat(A) Typ	A (mm) ± 1	B (mm) ± 1	C (mm) ± 1	H (mm) ± 1	ϕd (mm) ± 0.1
HM2222A-121M	120	40	7	7	22.0	22.0	16.0	14.5	1.0
HM2828A-221M	200	50	12	13	28.0	28.0	22.0	16.0	1.2
HM2828A-251M	250	65	8.5	8.5	28.0	28.0	22.0	16.0	1.1
HM3333A-330M	33	7.8	20	38	32.0	32.0	19.0	17.0	1.7

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Winding



1. All test Data is referenced to 25℃ambient.
2. Inductance test frequency 200KHz,0.1Vrms
3. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
4. Irms will cause the coil temperature rise Approximately Δ T=40℃ without core loss.
5. Isat will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
7. Operating Temperature & Storage Temperature: -40℃ ~ +125℃.

SHINHOM