

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0402 SERIES

FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



ELECTRICAL CHARACTERISTICS:

Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0402-1N0□	1.0@250MHZ	10	13@250MHZ	10.0	0.045	1360
AISC0402-2N2□	2.2@250MHZ	10,5	18@250MHZ	6.00	0.07	960
AISC0402-2N7□	2.7@250MHZ	10,5	15@250MHZ	6.00	0.12	640
AISC0402-3N3□	3.3@250MHZ	10,5	20@250MHZ	6.00	0.066	840
AISC0402-3N9□	3.9@250MHZ	10,5	20@250MHZ	6.00	0.066	840
AISC0402-4N7□	4.7@250MHZ	10,5,2	18@250MHZ	4.50	0.2	640
AISC0402-5N6□	5.6@250MHZ	10,5,2	20@250MHZ	4.80	0.083	760
AISC0402-6N8□	6.8@250MHZ	10,5,2	23@250MHZ	4.80	0.26	680
AISC0402-8N2□	8.2@250MHZ	10,5,2	25@250MHZ	4.40	0.1	680
AISC0402-10N□	10@250MHZ	10,5,2	25@250MHZ	3.90	0.2	480
AISC0402-12N□	12@250MHZ	10,5,2	25@250MHZ	3.60	0.12	640
AISC0402-15N□	15@250MHZ	10,5,2	25@250MHZ	3.28	0.3	560
AISC0402-18N□	18@250MHZ	10,5,2	25@250MHZ	3.10	0.23	420
AISC0402-22N□	22@250MHZ	10,5,2	25@250MHZ	2.80	0.3	400
AISC0402-27N□	27@250MHZ	10,5,2	24@250MHZ	2.48	0.52	280
AISC0402-33N□	33@250MHZ	10,5,2	24@250MHZ	2.35	0.65	350
AISC0402-39N□	39@250MHZ	10,5,2	25@250MHZ	2.10	0.75	200
AISC0402-47N□	47@250MHZ	10,5,2	25@250MHZ	2.10	0.83	150
AISC0402-56N□	56@250MHZ	10,5,2	25@250MHZ	1.76	0.97	100
AISC0402-68N□	68@250MHZ	10,5,2	25@250MHZ	1.62	1.12	100
AISC0402-82N□	82@250MHZ	10,5,2	25@250MHZ	1.26	1.7	50
AISC0402-R10□	100@250MHZ	10,5,2	25@250MHZ	1.16	2	30
AISC0402-R12□	120@250MHZ	10,5,2	25@250MHZ	1.10	2.2	30

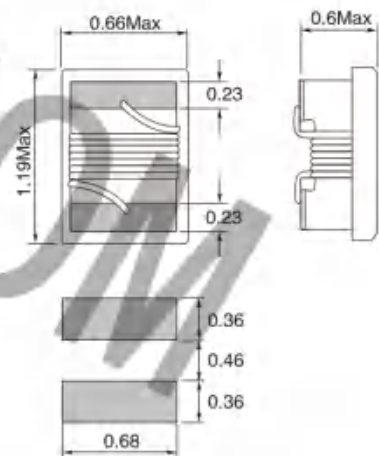
□ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance: HP4191A
Q:HP4291A
SRF:HP8753B
RDC:measured @ 25°C
- Operating Temperature:
Ceramic:-55°C to +125°C
- Pad metalization: Tungsten-nickel with gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



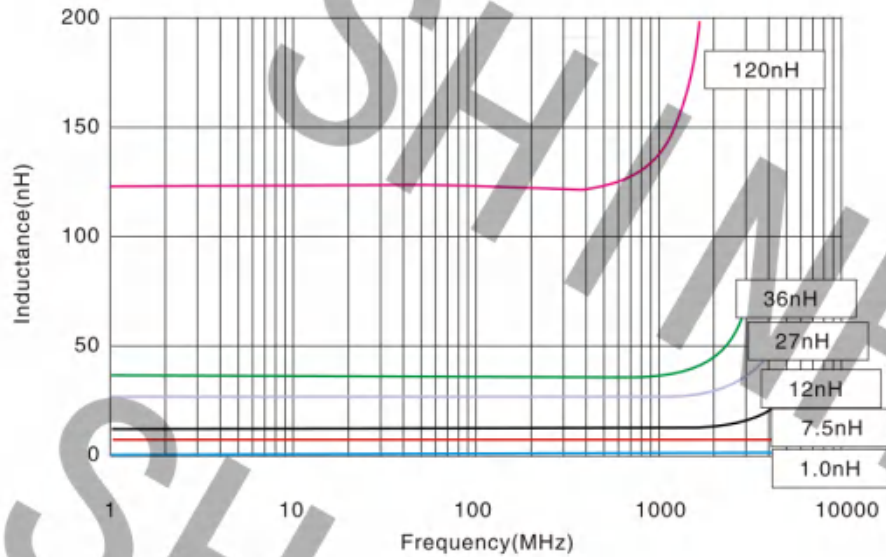
PCB LAYOUT

Winding

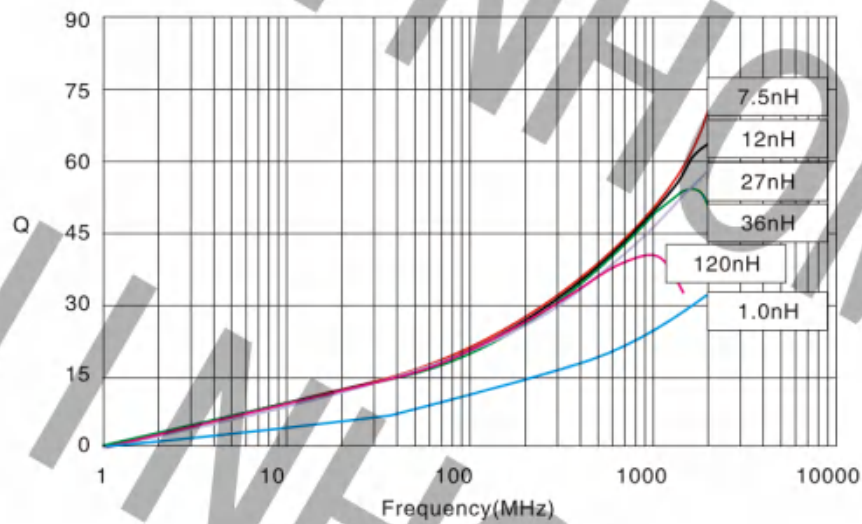


SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance Vs Frequency



Q Vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0603 SERIES

FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



ELECTRICAL CHARACTERISTICS:

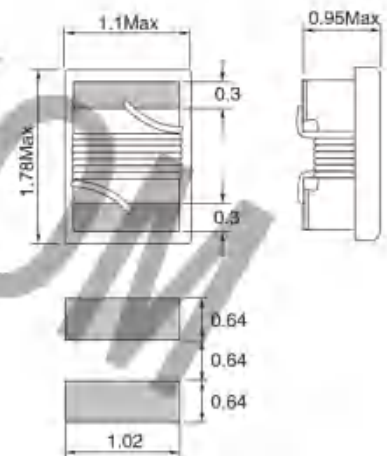
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0603-1N6□	1.6@250MHZ	10	18@250MHZ	12.5	0.040	700
AISC0603-1N8□	1.8@250MHZ	10	16@250MHZ	12.5	0.045	700
AISC0603-2N2□	2.2@250MHZ	10	12@250MHZ	10	0.090	700
AISC0603-3N3□	3.3@250MHZ	10	20@250MHZ	5.9	0.075	700
AISC0603-3N6□	3.6@250MHZ	10.5	22@250MHZ	5.9	0.075	700
AISC0603-3N9□	3.9@250MHZ	10.5	22@250MHZ	6.9	0.080	700
AISC0603-4N3□	4.3@250MHZ	10.5	22@250MHZ	5.9	0.075	700
AISC0603-4N7□	4.7@250MHZ	10.5	20@250MHZ	5.8	0.116	700
AISC0603-5N1□	5.1@250MHZ	10.5	20@250MHZ	5.7	0.120	700
AISC0603-5N6□	5.6@250MHZ	10	18@250MHZ	5.7	0.200	700
AISC0603-6N8□	6.8@250MHZ	10.5	27@250MHZ	5.6	0.110	700
AISC0603-7N5□	7.5@250MHZ	10.5	28@250MHZ	4.8	0.110	700
AISC0603-8N2□	8.2@250MHZ	10	28@250MHZ	4.7	0.120	700
AISC0603-9N5□	9.5@250MHZ	10	26@250MHZ	5.4	0.150	700
AISC0603-10N□	10@250MHZ	10	31@250MHZ	4.8	0.130	700
AISC0603-12N□	12@250MHZ	10	35@250MHZ	4	0.130	700
AISC0603-15N□	15@250MHZ	10	30@250MHZ	4	0.150	700
AISC0603-18N□	18@250MHZ	10	35@250MHZ	3.1	0.170	700
AISC0603-22N□	22@250MHZ	10	38@250MHZ	3	0.190	700
AISC0603-27N□	27@250MHZ	10	36@250MHZ	2.8	0.220	600
AISC0603-33N□	33@250MHZ	10	36@250MHZ	2.3	0.220	600
AISC0603-36N□	36@250MHZ	10	36@250MHZ	2.08	0.250	600
AISC0603-39N□	39@250MHZ	10	40@250MHZ	2.2	0.250	600
AISC0603-43N□	43@250MHZ	10	36@250MHZ	2	0.280	600
AISC0603-47N□	47@200MHZ	10	36@200MHZ	2	0.280	600
AISC0603-56N□	56@200MHZ	10	38@200MHZ	1.9	0.280	600
AISC0603-68N□	68@200MHZ	10	36@200MHZ	1.7	0.340	600
AISC0603-75N□	75@150MHZ	10	30@150MHZ	1.4	0.600	400
AISC0603-82N□	82@150MHZ	10	34@150MHZ	1.7	0.550	400
AISC0603-R10□	100@150MHZ	10	30@150MHZ	1.4	0.630	400
AISC0603-R12□	120@150MHZ	10	32@150MHZ	1.3	0.730	300
AISC0603-R15□	150@150MHZ	10	28@150MHZ	0.99	0.800	280
AISC0603-R18□	180@100MHZ	10	25@100MHZ	0.99	1.450	240
AISC0603-R20□	200@100MHZ	10	25@100MHZ	0.9	1.550	200
AISC0603-R22□	220@100MHZ	10	25@100MHZ	0.9	2.100	200
AISC0603-R27□	270@100MHZ	10	24@100MHZ	0.9	2.300	170
AISC0603-R33□	330@100MHZ	10	25@100MHZ	0.9	3.890	100
AISC0603-R39□	390@100MHZ	10	25@100MHZ	0.8	4.350	100

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
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Q:HP4291A
SRF:HP8753B
RDC:measured @ 25°C
- Operating Temperature:
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- Pad metalization: Tungsten-nickel with gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

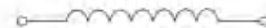
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

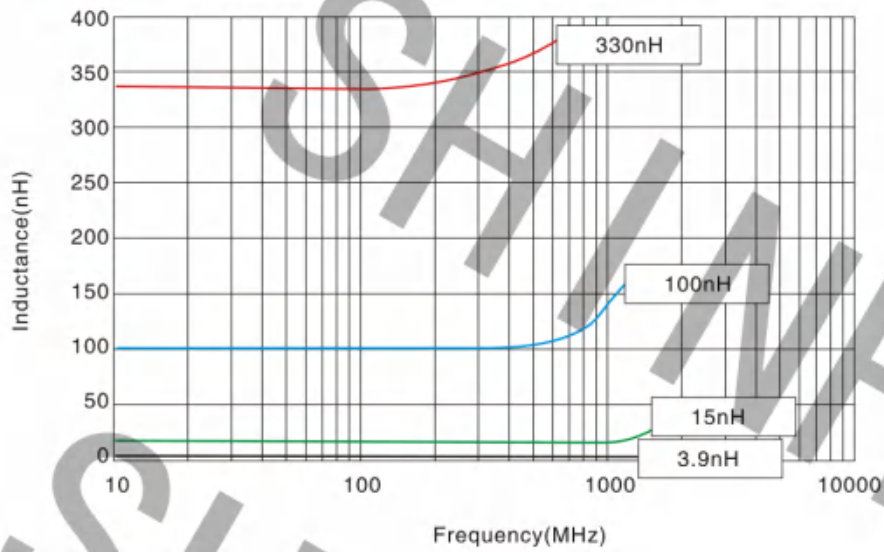
Winding



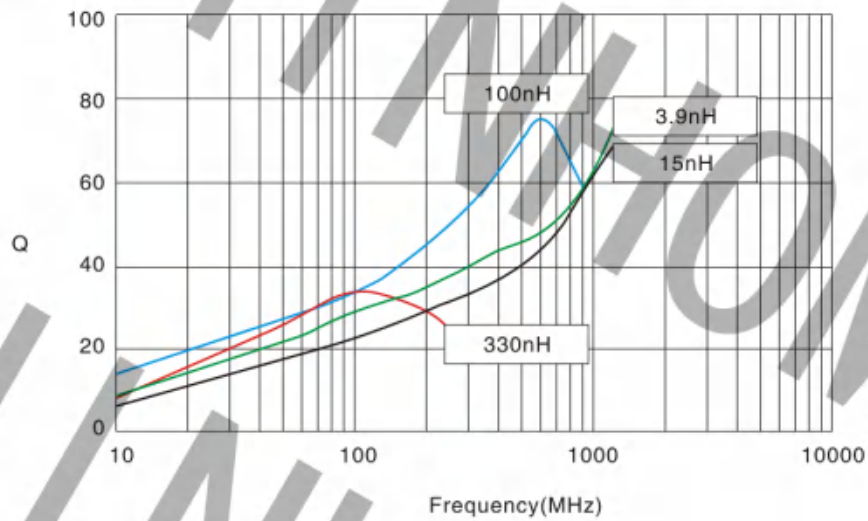
□ G=± 2%, J=± 5%, K=± 10%, M=± 20%, N=± 30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0805 SERIES

FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
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COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



ELECTRICAL CHARACTERISTICS:

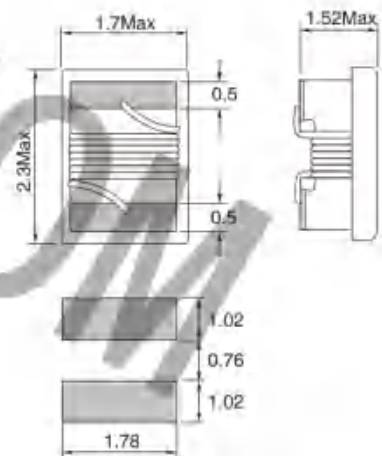
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0805-2N2□	2.2@250MHz	10	50@1500MHz	8.50	0.030	800
AISC0805-2N7□	2.7@250MHz	10,5	50@1500MHz	8.00	0.045	800
AISC0805-3N3□	3.3@250MHz	10	35@1500MHz	7.90	0.090	600
AISC0805-4N7□	4.7@250MHz	10	40@1000MHz	6.00	0.050	600
AISC0805-5N6□	5.6@250MHz	10,5	50@1000MHz	5.50	0.065	600
AISC0805-6N8□	6.8@250MHz	10,5	50@1000MHz	5.50	0.110	600
AISC0805-8N2□	8.2@250MHz	10,5	35@1000MHz	4.70	0.200	600
AISC0805-10N□	10@250MHz	10,5,2	50@500MHz	4.20	0.150	600
AISC0805-12N□	12@250MHz	10,5,2	50@500MHz	4.00	0.150	600
AISC0805-15N□	15@250MHz	10,5,2	45@500MHz	3.40	0.170	600
AISC0805-18N□	18@250MHz	10,5,2	55@500MHz	3.30	0.200	600
AISC0805-22N□	22@250MHz	10,5,2	55@500MHz	2.60	0.220	500
AISC0805-27N□	27@250MHz	10,5,2	55@500MHz	2.50	0.250	500
AISC0805-33N□	33@250MHz	10,5,2	55@500MHz	2.05	0.270	500
AISC0805-39N□	39@250MHz	10,5,2	55@500MHz	2.00	0.290	500
AISC0805-47N□	47@200MHz	10,5,2	55@500MHz	1.65	0.310	500
AISC0805-56N□	56@200MHz	10,5,2	55@500MHz	1.55	0.340	500
AISC0805-68N□	68@200MHz	10,5,2	55@500MHz	1.45	0.380	500
AISC0805-75N□	75@200MHz	10,5,2	55@500MHz	1.40	0.400	400
AISC0805-82N□	82@150MHz	10,5,2	55@500MHz	1.30	0.420	400
AISC0805-R10□	100@150MHz	10,5,2	50@500MHz	1.20	0.460	400
AISC0805-R12□	120@150MHz	10,5,2	45@250MHz	1.10	0.510	400
AISC0805-R15□	150@100MHz	10,5,2	45@250MHz	0.92	0.560	400
AISC0805-R18□	180@100MHz	10,5,2	45@250MHz	0.87	0.640	400
AISC0805-R22□	220@100MHz	10,5,2	40@250MHz	0.85	1.050	400
AISC0805-R27□	270@100MHz	10,5,2	40@250MHz	0.65	1.100	350
AISC0805-R33□	330@100MHz	10,5	40@250MHz	0.60	1.400	310
AISC0805-R39□	390@100MHz	10,5	40@250MHz	0.56	1.500	290
AISC0805-R47□	470@50MHz	10,5	33@100MHz	0.38	2.000	250
AISC0805-R56□	560@25MHz	10,5	23@50MHz	0.34	1.900	230
AISC0805-R68□	680@25MHz	10,5	23@50MHz	0.30	2.100	190
AISC0805-R75□	750@25MHz	10,5	23@50MHz	0.28	2.120	180
AISC0805-R82□	820@25MHz	10,5	23@50MHz	0.25	2.140	180
AISC0805-R91□	910@25MHz	10,5	20@50MHz	0.22	2.280	180
AISC0805-1R0□	1000@25MHz	10,5	20@50MHz	0.20	2.400	170
AISC0805-1R2□	1200@7.9MHz	10,5	18@50MHz	0.18	2.550	170
AISC0805-1R5□	1500@7.9MHz	10,5	18@50MHz	0.17	2.800	160
AISC0805-1R8□	1800@7.9MHz	10,5	18@50MHz	0.14	3.800	150
AISC0805-2R2□	2200@7.9MHz	10,5	16@7.9MHz	0.05	4.200	150

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance: HP4191A
Q:HP4291A
SRF:HP8753B
RDC:measured @ 25°C
- Operating Temperature:
Ceramic:-55°C to +125°C
- Pad metalization: Tungsten-nickel with gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

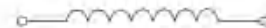
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

Winding

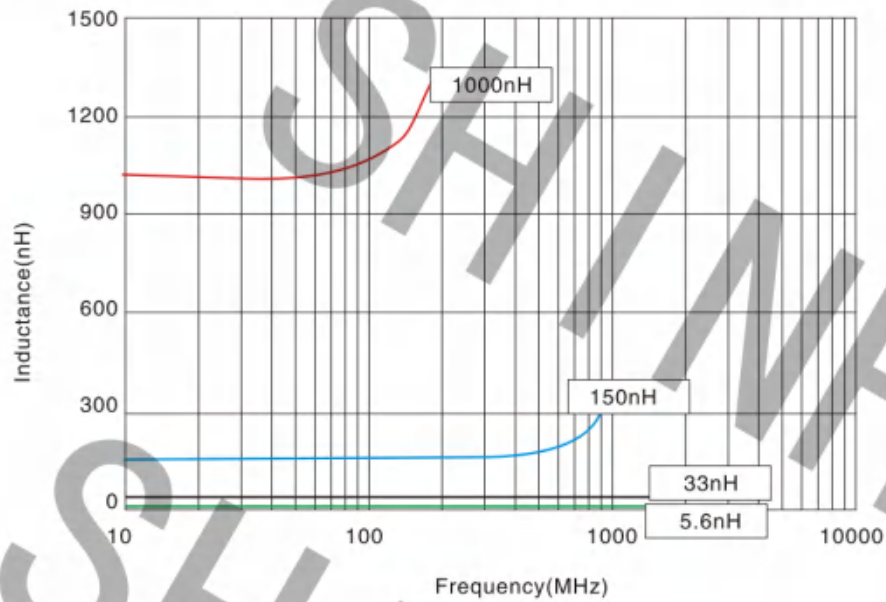


□ G=± 2%, J=± 5%, K=± 10%,

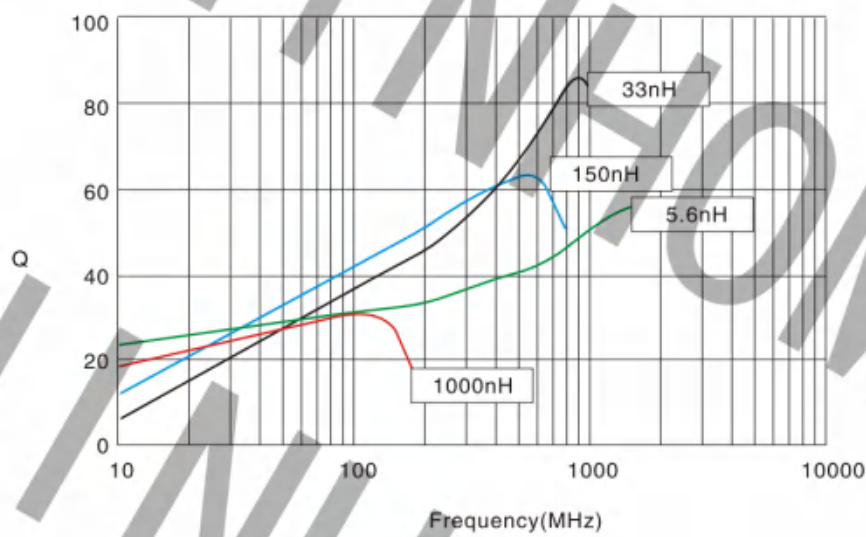
M=± 20%, N=± 30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC1008 SERIES

FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



ELECTRICAL CHARACTERISTICS:

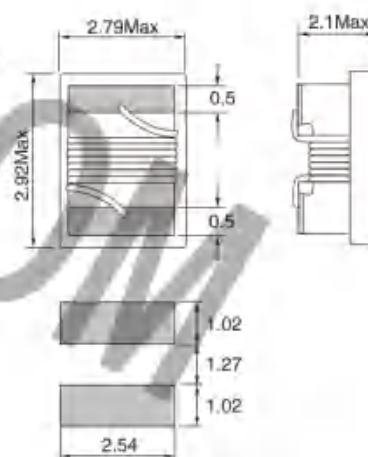
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1008-3N9□	3.9@50MHz	10,5	50@1500MHz	6.00	0.035	1000
AISC1008-4N7□	4.7@50MHz	10,5	50@1500MHz	6.00	0.045	1000
AISC1008-5N6□	5.6@50MHz	10,5	30@1000MHz	6.00	0.180	1000
AISC1008-8N2□	8.2@50MHz	10,5	50@1000MHz	5.00	0.050	1000
AISC1008-10N□	10@50MHz	10,5,2	50@500MHz	4.10	0.080	1000
AISC1008-12N□	12@50MHz	10,5,2	50@500MHz	3.30	0.090	1000
AISC1008-15N□	15@50MHz	10,5,2	45@500MHz	2.50	0.150	1000
AISC1008-18N□	18@50MHz	10,5,2	50@350MHz	2.50	0.110	1000
AISC1008-22N□	22@50MHz	10,5,2	55@350MHz	2.40	0.120	1000
AISC1008-27N□	27@50MHz	10,5,2	55@350MHz	1.60	0.130	1000
AISC1008-33N□	33@50MHz	10,5,2	60@350MHz	1.60	0.140	1000
AISC1008-39N□	39@50MHz	10,5,2	60@350MHz	1.50	0.150	1000
AISC1008-47N□	47@50MHz	10,5,2	65@350MHz	1.50	0.160	1000
AISC1008-56N□	56@50MHz	10,5,2	65@350MHz	1.10	0.180	1000
AISC1008-68N□	68@50MHz	10,5,2	55@350MHz	1.00	0.200	1000
AISC1008-82N□	82@50MHz	10,5,2	60@350MHz	1.00	0.220	1000
AISC1008-R10□	100@25MHz	10,5,2	60@350MHz	1.00	0.560	650
AISC1008-R12□	120@25MHz	10,5,2	50@350MHz	0.95	0.630	650
AISC1008-R15□	150@25MHz	10,5	45@100MHz	0.80	0.700	580
AISC1008-R18□	180@25MHz	10,5	45@100MHz	0.64	0.770	520
AISC1008-R22□	220@25MHz	10,5	45@100MHz	0.62	0.840	500
AISC1008-R27□	270@25MHz	10,5	45@100MHz	0.60	0.910	500
AISC1008-R33□	330@25MHz	10,5	45@100MHz	0.50	1.050	450
AISC1008-R39□	390@25MHz	10,5	45@100MHz	0.48	1.120	470
AISC1008-R47□	470@25MHz	10,5	45@100MHz	0.45	1.190	470
AISC1008-R56□	560@25MHz	10,5	45@100MHz	0.415	1.330	400
AISC1008-R68□	680@25MHz	10,5	45@100MHz	0.375	1.470	400
AISC1008-R82□	820@25MHz	10,5	45@100MHz	0.25	1.610	400
AISC1008-1R0□	1000@25MHz	10,5	35@50MHz	0.21	1.750	370
AISC1008-1R2□	1200@7.9MHz	10,5	35@50MHz	0.20	2.000	310
AISC1008-1R5□	1500@7.9MHz	10,5	28@50MHz	0.18	2.300	230
AISC1008-1R8□	1800@7.9MHz	10,5	28@50MHz	0.16	2.600	300
AISC1008-2R2□	2200@7.9MHz	10,5	20@50MHz	0.09	2.800	280
AISC1008-2R7□	2700@7.9MHz	10,5	22@25MHz	0.08	3.200	290
AISC1008-3R3□	3300@7.9MHz	10,5	22@25MHz	0.07	3.400	280
AISC1008-3R9□	3900@7.9MHz	10,5	16@25MHz	0.06	3.600	260
AISC1008-4R7□	4700@7.9MHz	10,5	18@25MHz	0.06	4.000	260
AISC1008-5R6□	5600@7.9MHz	10,5	18@7.9MHz	0.06	7.600	240
AISC1008-6R8□	6800@7.9MHz	10,5	18@7.9MHz	0.05	8.200	200
AISC1008-8R2□	8200@7.9MHz	10,5	18@7.9MHz	0.04	8.200	170
AISC1008-100□	10000@7.9MHz	10,5	20@7.9MHz	0.04	9.100	160

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance: HP4191A
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SRF: HP8753B
RDC: measured @ 25°C
- Operating Temperature:
Ceramic: -55°C to +125°C
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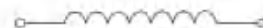
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

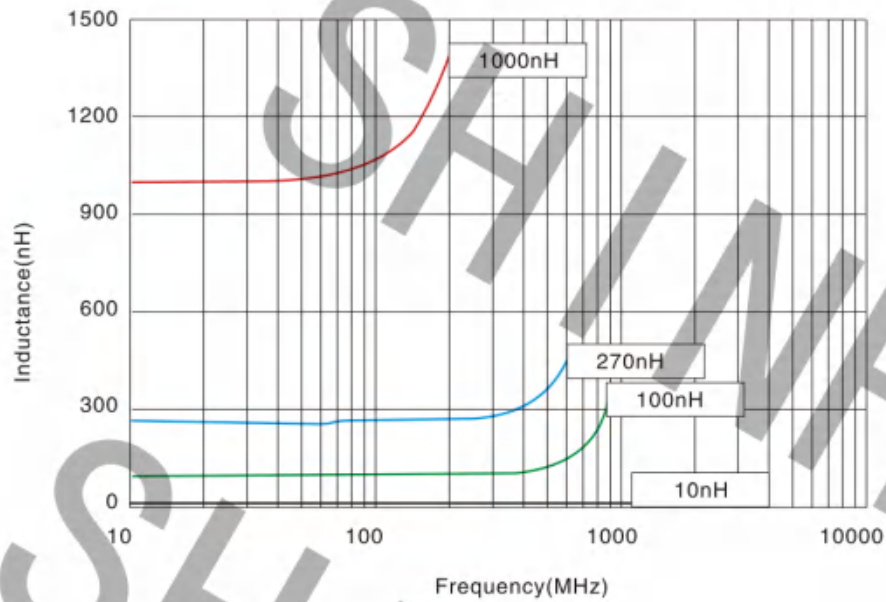
Winding



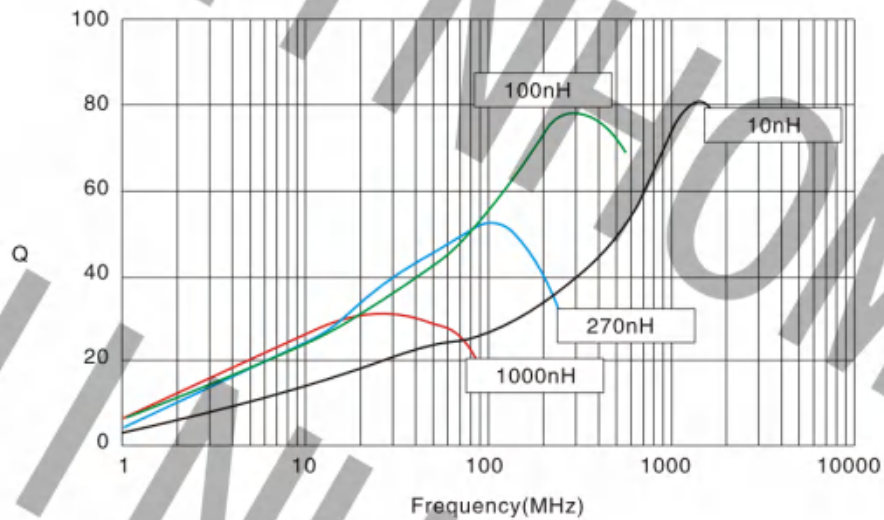
- G= ± 2%, J= ± 5%, K= ± 10%,
M= ± 20%, N= ± 30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC1210 SERIES

FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
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- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



ELECTRICAL CHARACTERISTICS:

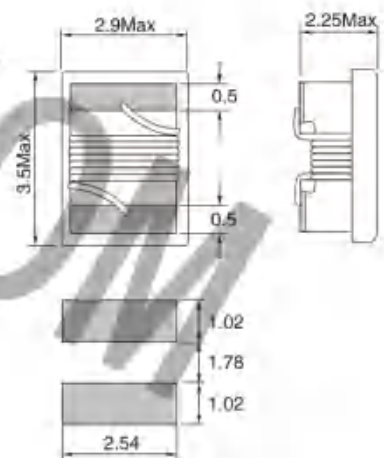
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1210-3N9□	3.9@100MHz	10	30@300MHz	6.00	0.050	1000
AISC1210-4N7□	4.7@100MHz	10,5	30@300MHz	5.80	0.065	1000
AISC1210-8N2□	8.2@100MHz	10	30@300MHz	5.50	0.070	1000
AISC1210-10N□	10@100MHz	10,5,2	40@300MHz	4.00	0.080	1000
AISC1210-12N□	12@100MHz	10,5	40@300MHz	3.20	0.080	1000
AISC1210-15N□	15@100MHz	10,5	40@300MHz	3.20	0.100	1000
AISC1210-18N□	18@100MHz	10,5,2	50@300MHz	2.80	0.100	1000
AISC1210-22N□	22@100MHz	10,5	50@300MHz	2.00	0.100	1000
AISC1210-27N□	27@100MHz	10,5,2	50@300MHz	1.80	0.110	1000
AISC1210-33N□	33@100MHz	10,5,2	55@300MHz	1.80	0.110	1000
AISC1210-39N□	39@100MHz	10,5,2	55@300MHz	1.80	0.120	1000
AISC1210-47N□	47@100MHz	10,5,2	55@300MHz	1.50	0.130	1000
AISC1210-56N□	56@100MHz	10,5,2	55@300MHz	1.45	0.140	1000
AISC1210-68N□	68@100MHz	10,5,2	55@300MHz	1.20	0.150	900
AISC1210-82N□	82@100MHz	10,5,2	55@300MHz	1.00	0.200	900
AISC1210-R10□	100@100MHz	10,5,2	55@300MHz	0.90	0.210	850
AISC1210-R12□	120@100MHz	10,5,2	60@300MHz	0.80	0.210	800
AISC1210-R15□	150@100MHz	10,5,2	60@300MHz	0.78	0.250	750
AISC1210-R18□	180@50MHz	10,5,2	60@300MHz	0.76	0.300	700
AISC1210-R22□	220@50MHz	10,5,2	60@300MHz	0.65	0.320	670
AISC1210-R27□	270@50MHz	10,5,2	55@300MHz	0.62	0.340	630
AISC1210-R33□	330@50MHz	10,5,2	45@150MHz	0.60	0.380	590
AISC1210-R39□	390@50MHz	10,5,2	45@150MHz	0.51	0.580	530
AISC1210-R47□	470@50MHz	10,5,2	45@150MHz	0.50	0.800	490
AISC1210-R56□	560@35MHz	10,5	45@150MHz	0.42	1.100	460
AISC1210-R68□	680@35MHz	10,5,2	45@150MHz	0.40	1.200	430
AISC1210-R75□	750@35MHz	10,5,2	45@150MHz	0.38	1.70	400
AISC1210-R82□	820@35MHz	10,5,2	45@150MHz	0.37	1.820	400
AISC1210-1R0□	1000@35MHz	10,5,2	45@150MHz	0.34	1.850	320
AISC1210-1R2□	1200@35MHz	10,5	35@150MHz	0.22	1.870	300
AISC1210-1R5□	1500@7.9MHz	10,5	30@50MHz	0.16	1.950	310
AISC1210-1R8□	1800@7.9MHz	10,5	30@50MHz	0.16	2.250	310
AISC1210-2R2□	2200@7.9MHz	10,5	30@50MHz	0.11	2.410	310
AISC1210-2R7□	2700@7.9MHz	10,5	25@25MHz	0.10	2.850	300
AISC1210-3R3□	3300@7.9MHz	10,5	20@25MHz	0.09	3.120	300
AISC1210-3R9□	3900@7.9MHz	10,5	20@25MHz	0.08	3.600	290
AISC1210-4R7□	4700@7.9MHz	10,5	16@25MHz	0.06	4.000	280
AISC1210-5R6□	5600@7.9MHz	10,5	20@7.9MHz	0.06	5.000	250
AISC1210-6R8□	6800@7.9MHz	10,5	20@7.9MHz	0.06	8.000	230
AISC1210-8R2□	8200@7.9MHz	10,5	20@7.9MHz	0.05	8.600	170
AISC1210-100□	10000@7.9MHz	10,5	22@7.9MHz	0.02	6.800	200

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance: HP4191A
Q:HP4291A
SRF:HP8753B
RDC:measured @ 25°C
- Operating Temperature:
Ceramic:-55°C to +125°C
- Pad metalization: Tungsten-nickel with gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

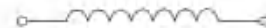
PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

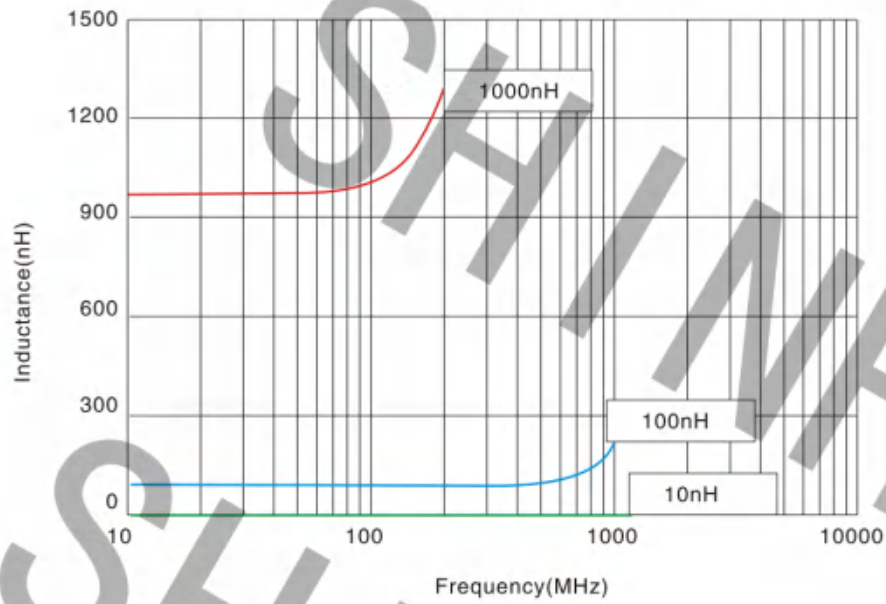
Winding



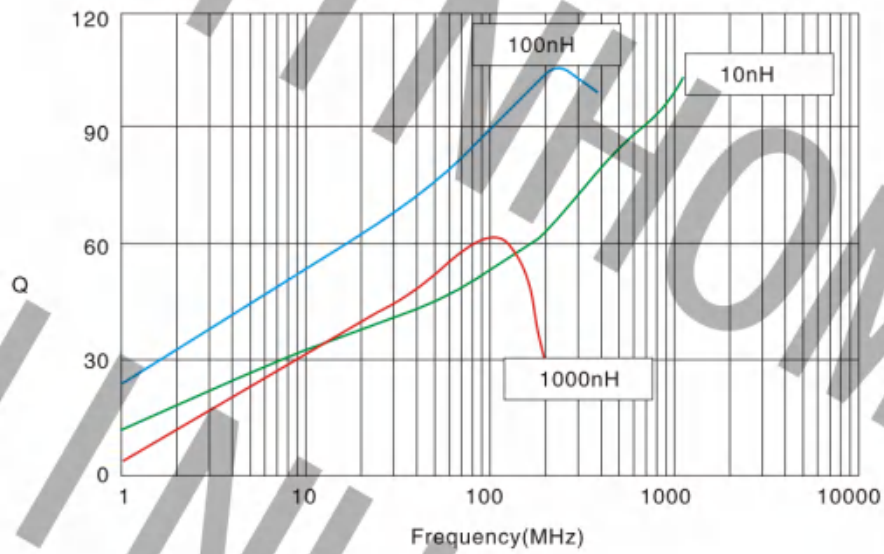
- G= ± 2%, J= ± 5%, K= ± 10%,
M= ± 20%, N= ± 30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0402C SERIES

FEATURES:

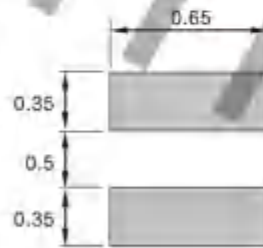
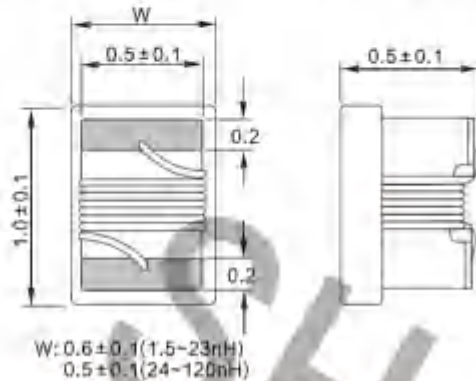
- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general



PHYSICAL CHARACTERISTICS:



Land dimensions

WINDING:



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C1N5B	1.5	B: ±0.1 nH	10	0.03	18.0	1000
AISC0402C1N5C	1.5	C: ±0.2 nH	10	0.03	18.0	1000
AISC0402C1N5D	1.5	D: ±0.5 nH	10	0.03	18.0	1000
AISC0402C1N6C	1.6	C: ±0.2 nH	10	0.07	17.0	750
AISC0402C1N6D	1.6	D: ±0.5 nH	10	0.07	17.0	750
AISC0402C1N7C	1.7	C: ±0.2 nH	10	0.10	17.0	640
AISC0402C1N7D	1.7	D: ±0.5 nH	10	0.10	17.0	640
AISC0402C1N8C	1.8	C: ±0.2 nH	10	0.16	16.0	460
AISC0402C1N8D	1.8	D: ±0.5 nH	10	0.16	16.0	460
AISC0402C2N4B	2.4	B: ±0.1 nH	20	0.05	15.0	850
AISC0402C2N4C	2.4	C: ±0.2 nH	20	0.05	15.0	850
AISC0402C2N4D	2.4	D: ±0.5 nH	20	0.05	15.0	850
AISC0402C2N5B	2.5	B: ±0.1 nH	20	0.05	15.0	850
AISC0402C2N5C	2.5	C: ±0.2 nH	20	0.05	15.0	850
AISC0402C2N5D	2.5	D: ±0.5 nH	20	0.05	15.0	850
AISC0402C2N6B	2.6	B: ±0.1 nH	20	0.05	15.0	850
AISC0402C2N6C	2.6	C: ±0.2 nH	20	0.05	15.0	850
AISC0402C2N6D	2.6	D: ±0.5 nH	20	0.05	15.0	850
AISC0402C2N7B	2.7	B: ±0.1 nH	20	0.05	15.0	850
AISC0402C2N7C	2.7	C: ±0.2 nH	20	0.05	15.0	850
AISC0402C2N7D	2.7	D: ±0.5 nH	20	0.05	15.0	850
AISC0402C2N8B	2.8	B: ±0.1 nH	20	0.05	15.0	850
AISC0402C2N8C	2.8	C: ±0.2 nH	20	0.05	15.0	850

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C2N8D	2.8	D: ± 0.5 nH	20	0.05	15.0	850
AISC0402C2N9B	2.9	B: ± 0.1 nH	20	0.07	15.0	750
AISC0402C2N9C	2.9	C: ± 0.2 nH	20	0.07	15.0	750
AISC0402C2N9D	2.9	D: ± 0.5 nH	20	0.07	15.0	750
AISC0402C3N0B	3.0	B: ± 0.1 nH	20	0.07	15.0	750
AISC0402C3N0C	3.0	C: ± 0.2 nH	20	0.07	15.0	750
AISC0402C3N0D	3.0	D: ± 0.5 nH	20	0.07	15.0	750
AISC0402C3N1B	3.1	B: ± 0.1 nH	20	0.13	14.0	570
AISC0402C3N1C	3.1	C: ± 0.2 nH	20	0.13	14.0	570
AISC0402C3N1D	3.1	D: ± 0.5 nH	20	0.13	14.0	570
AISC0402C3N2B	3.2	B: ± 0.1 nH	15	0.17	14.0	500
AISC0402C3N2C	3.2	C: ± 0.2 nH	15	0.17	14.0	500
AISC0402C3N2D	3.2	D: ± 0.5 nH	15	0.17	14.0	500
AISC0402C3N9B	3.9	B: ± 0.1 nH	25	0.07	10.0	750
AISC0402C3N9C	3.9	C: ± 0.2 nH	25	0.07	10.0	750
AISC0402C3N9D	3.9	D: ± 0.5 nH	25	0.07	10.0	750
AISC0402C4N1B	4.1	B: ± 0.1 nH	25	0.07	10.0	750
AISC0402C4N1C	4.1	C: ± 0.2 nH	25	0.07	10.0	750
AISC0402C4N1D	4.1	D: ± 0.5 nH	25	0.07	10.0	750
AISC0402C4N3B	4.3	B: ± 0.1 nH	25	0.07	10.0	750
AISC0402C4N3C	4.3	C: ± 0.2 nH	25	0.07	10.0	750
AISC0402C4N3D	4.3	D: ± 0.5 nH	25	0.07	10.0	750
AISC0402C4N4B	4.4	B: ± 0.1 nH	25	0.07	8.0	750
AISC0402C4N4C	4.4	C: ± 0.2 nH	25	0.07	8.0	750
AISC0402C4N4D	4.4	D: ± 0.5 nH	25	0.07	8.0	750
AISC0402C4N5B	4.5	B: ± 0.1 nH	25	0.07	8.0	750
AISC0402C4N5C	4.5	C: ± 0.2 nH	25	0.07	8.0	750
AISC0402C4N5D	4.5	D: ± 0.5 nH	25	0.07	8.0	750
AISC0402C4N6B	4.6	B: ± 0.1 nH	25	0.07	8.0	750
AISC0402C4N6C	4.6	C: ± 0.2 nH	25	0.07	8.0	750
AISC0402C4N6D	4.6	D: ± 0.5 nH	25	0.07	8.0	750
AISC0402C4N7B	4.7	B: ± 0.1 nH	25	0.07	8.0	750
AISC0402C4N7C	4.7	C: ± 0.2 nH	25	0.07	8.0	750
AISC0402C4N7D	4.7	D: ± 0.5 nH	25	0.07	8.0	750
AISC0402C4N8B	4.8	B: ± 0.1 nH	25	0.07	8.0	750
AISC0402C4N8C	4.8	C: ± 0.2 nH	25	0.07	8.0	750
AISC0402C4N8D	4.8	D: ± 0.5 nH	25	0.07	8.0	750
AISC0402C4N9B	4.9	B: ± 0.1 nH	25	0.12	8.0	600
AISC0402C4N9C	4.9	C: ± 0.2 nH	25	0.12	8.0	600
AISC0402C4N9D	4.9	D: ± 0.5 nH	25	0.12	8.0	600
AISC0402C5N0B	5.0	B: ± 0.1 nH	25	0.12	8.0	600

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C5N0C	5.0	C: ± 0.2 nH	25	0.12	8.0	600
AISC0402C5N0D	5.0	D: ± 0.5 nH	25	0.12	8.0	600
AISC0402C5N1B	5.1	B: ± 0.1 nH	25	0.12	8.0	600
AISC0402C5N1C	5.1	C: ± 0.2 nH	25	0.12	8.0	600
AISC0402C5N1D	5.1	D: ± 0.5 nH	25	0.12	8.0	600
AISC0402C5N8B	5.8	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C5N8C	5.8	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C5N8D	5.8	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N2B	6.2	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N2C	6.2	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N2D	6.2	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N3B	6.3	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N3C	6.3	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N3D	6.3	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N4B	6.4	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N4C	6.4	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N4D	6.4	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N5B	6.5	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N5C	6.5	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N5D	6.5	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N6B	6.6	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N6C	6.6	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N6D	6.6	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N7B	6.7	B: ± 0.1 nH	25	0.09	8.0	700
AISC0402C6N7C	6.7	C: ± 0.2 nH	25	0.09	8.0	700
AISC0402C6N7D	6.7	D: ± 0.5 nH	25	0.09	8.0	700
AISC0402C6N8G	6.8	G: $\pm 2\%$	25	0.09	8.0	700
AISC0402C6N8H	6.8	H: $\pm 3\%$	25	0.09	8.0	700
AISC0402C6N8J	6.8	J: $\pm 5\%$	25	0.09	8.0	700
AISC0402C6N9G	6.9	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C6N9H	6.9	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C6N9J	6.9	J: $\pm 5\%$	25	0.13	6.0	570
AISC0402C7N0G	7.0	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C7N0H	7.0	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C7N0J	7.0	J: $\pm 5\%$	25	0.13	6.0	570
AISC0402C7N1G	7.1	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C7N1H	7.1	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C7N1J	7.1	J: $\pm 5\%$	25	0.13	6.0	570
AISC0402C7N2G	7.2	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C7N2H	7.2	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C7N2J	7.2	J: $\pm 5\%$	25	0.13	6.0	570

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C7N3G	7.3	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C7N3H	7.3	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C7N3J	7.3	J: $\pm 5\%$	25	0.13	6.0	570
AISC0402C7N5G	7.5	G: $\pm 2\%$	25	0.13	6.0	570
AISC0402C7N5H	7.5	H: $\pm 3\%$	25	0.13	6.0	570
AISC0402C7N5J	7.5	J: $\pm 5\%$	25	0.13	6.0	570
AISC0402C8N2G	8.2	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C8N2H	8.2	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C8N2J	8.2	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C8N6G	8.6	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C8N6H	8.6	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C8N6J	8.6	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C8N7G	8.7	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C8N7H	8.7	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C8N7J	8.7	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C8N8G	8.8	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C8N8H	8.8	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C8N8J	8.8	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C8N9G	8.9	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C8N9H	8.9	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C8N9J	8.9	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N0G	9.0	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N0H	9.0	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N0J	9.0	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N1G	9.1	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N1H	9.1	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N1J	9.1	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N2G	9.2	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N2H	9.2	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N2J	9.2	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N3G	9.3	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N3H	9.3	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N3J	9.3	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N4G	9.4	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N4H	9.4	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N4J	9.4	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N5G	9.5	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N5H	9.5	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N5J	9.5	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N6G	9.6	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N6H	9.6	H: $\pm 3\%$	25	0.14	5.5	540

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C9N6J	9.6	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N7G	9.7	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N7H	9.7	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N7J	9.7	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N8G	9.8	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N8H	9.8	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N8J	9.8	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C9N9G	9.9	G: $\pm 2\%$	25	0.14	5.5	540
AISC0402C9N9H	9.9	H: $\pm 3\%$	25	0.14	5.5	540
AISC0402C9N9J	9.9	J: $\pm 5\%$	25	0.14	5.5	540
AISC0402C10NG	10	G: $\pm 2\%$	25	0.17	5.5	500
AISC0402C10NH	10	H: $\pm 3\%$	25	0.17	5.5	500
AISC0402C10NJ	10	J: $\pm 5\%$	25	0.17	5.5	500
AISC0402C11NG	11	G: $\pm 2\%$	30	0.14	5.5	500
AISC0402C11NH	11	H: $\pm 3\%$	30	0.14	5.5	500
AISC0402C11NJ	11	J: $\pm 5\%$	30	0.14	5.5	500
AISC0402C12NG	12	G: $\pm 2\%$	30	0.14	5.5	500
AISC0402C12NH	12	H: $\pm 3\%$	30	0.14	5.5	500
AISC0402C12NJ	12	J: $\pm 5\%$	30	0.14	5.5	500
AISC0402C13NG	13	G: $\pm 2\%$	25	0.21	5.0	430
AISC0402C13NH	13	H: $\pm 3\%$	25	0.21	5.0	430
AISC0402C13NJ	13	J: $\pm 5\%$	25	0.21	5.0	430
AISC0402C15NG	15	G: $\pm 2\%$	30	0.16	5.0	460
AISC0402C15NH	15	H: $\pm 3\%$	30	0.16	5.0	460
AISC0402C15NJ	15	J: $\pm 5\%$	30	0.16	5.0	460
AISC0402C16NG	16	G: $\pm 2\%$	25	0.24	4.5	370
AISC0402C16NH	16	H: $\pm 3\%$	25	0.24	4.5	370
AISC0402C16NJ	16	J: $\pm 5\%$	25	0.24	4.5	370
AISC0402C18NG	18	G: $\pm 2\%$	25	0.27	4.5	370
AISC0402C18NH	18	H: $\pm 3\%$	25	0.27	4.5	370
AISC0402C18NJ	18	J: $\pm 5\%$	25	0.27	4.5	370
AISC0402C19NG	19	G: $\pm 2\%$	25	0.27	4.5	370
AISC0402C19NH	19	H: $\pm 3\%$	25	0.27	4.5	370
AISC0402C19NJ	19	J: $\pm 5\%$	25	0.27	4.5	370
AISC0402C20NG	20	G: $\pm 2\%$	25	0.27	4.0	370
AISC0402C20NH	20	H: $\pm 3\%$	25	0.27	4.0	370
AISC0402C20NJ	20	J: $\pm 5\%$	25	0.27	4.0	370
AISC0402C22NG	22	G: $\pm 2\%$	25	0.30	4.0	310
AISC0402C22NH	22	H: $\pm 3\%$	25	0.30	4.0	310
AISC0402C22NJ	22	J: $\pm 5\%$	25	0.30	4.0	310
AISC0402C23NG	23	G: $\pm 2\%$	25	0.30	3.8	310

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C23NH	23	H: $\pm 3\%$	25	0.30	3.8	310
AISC0402C23NJ	23	J: $\pm 5\%$	25	0.30	3.8	310
AISC0402C24NG	24	G: $\pm 2\%$	25	0.52	3.5	280
AISC0402C24NH	24	H: $\pm 3\%$	25	0.52	3.5	280
AISC0402C24NJ	24	J: $\pm 5\%$	25	0.52	3.5	280
AISC0402C27NG	27	G: $\pm 2\%$	25	0.52	3.5	280
AISC0402C27NH	27	H: $\pm 3\%$	25	0.52	3.5	280
AISC0402C27NJ	27	J: $\pm 5\%$	25	0.52	3.5	280
AISC0402C30NG	30	G: $\pm 2\%$	25	0.58	3.3	270
AISC0402C30NH	30	H: $\pm 3\%$	25	0.58	3.3	270
AISC0402C30NJ	30	J: $\pm 5\%$	25	0.58	3.3	270
AISC0402C33NG	33	G: $\pm 2\%$	25	0.63	3.2	260
AISC0402C33NH	33	H: $\pm 3\%$	25	0.63	3.2	260
AISC0402C33NJ	33	J: $\pm 5\%$	25	0.63	3.2	260
AISC0402C36NG	36	G: $\pm 2\%$	25	0.63	3.1	260
AISC0402C36NH	36	H: $\pm 3\%$	25	0.63	3.1	260
AISC0402C36NJ	36	J: $\pm 5\%$	25	0.63	3.1	260
AISC0402C39NG	39	G: $\pm 2\%$	25	0.70	3.0	250
AISC0402C39NH	39	H: $\pm 3\%$	25	0.70	3.0	250
AISC0402C39NJ	39	J: $\pm 5\%$	25	0.70	3.0	250
AISC0402C40NG	40	G: $\pm 2\%$	25	0.70	3.0	250
AISC0402C40NH	40	H: $\pm 3\%$	25	0.70	3.0	250
AISC0402C40NJ	40	J: $\pm 5\%$	25	0.70	3.0	250
AISC0402C43NG	43	G: $\pm 2\%$	25	0.70	3.0	250
AISC0402C43NH	43	H: $\pm 3\%$	25	0.70	3.0	250
AISC0402C43NJ	43	J: $\pm 5\%$	25	0.70	3.0	250
AISC0402C47NG	47	G: $\pm 2\%$	25	1.08	2.9	210
AISC0402C47NH	47	H: $\pm 3\%$	25	1.08	2.9	210
AISC0402C47NJ	47	J: $\pm 5\%$	25	1.08	2.9	210
AISC0402C51NG	51	G: $\pm 2\%$	25	1.08	2.85	210
AISC0402C51NH	51	H: $\pm 3\%$	25	1.08	2.85	210
AISC0402C51NJ	51	J: $\pm 5\%$	25	1.08	2.85	210
AISC0402C56NG	56	G: $\pm 2\%$	25	1.17	2.8	200
AISC0402C56NH	56	H: $\pm 3\%$	25	1.17	2.8	200
AISC0402C56NJ	56	J: $\pm 5\%$	25	1.17	2.8	200
AISC0402C62NG	62	G: $\pm 2\%$	20	1.82	2.6	145
AISC0402C62NH	62	H: $\pm 3\%$	20	1.82	2.6	145
AISC0402C62NJ	62	J: $\pm 5\%$	20	1.82	2.6	145
AISC0402C68NG	68	G: $\pm 2\%$	20	1.96	2.5	140
AISC0402C68NJ	68	J: $\pm 5\%$	20	1.96	2.5	140
AISC0402C72NG	72	G: $\pm 2\%$	20	2.10	2.5	135

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance		Q Min	DCR (Ω)Max	SRF (GHz)Min	Rated current (mA)
	Nominal value (nH)	Tolerance				
AISC0402C72NJ	72	J: $\pm 5\%$	20	2.10	2.5	135
AISC0402C75NG	75	G: $\pm 2\%$	20	2.10	2.4	135
AISC0402C75NJ	75	J: $\pm 5\%$	20	2.10	2.4	135
AISC0402C82NG	82	G: $\pm 2\%$	20	2.24	2.3	130
AISC0402C82NJ	82	J: $\pm 5\%$	20	2.24	2.3	130
AISC0402C91NG	91	G: $\pm 2\%$	20	2.38	2.1	125
AISC0402C91NJ	91	J: $\pm 5\%$	20	2.38	2.1	125
AISC0402CR10J	100	J: $\pm 5\%$	20	2.52	1.5	120
AISC0402CR12J	120	J: $\pm 5\%$	20	2.66	1.0	110

- Testing: HP4991A(Equivalent acceptable)
- Measuring fixture: Keysight 16197A
- Test frequency: Inductance: @100MHz
Q: @250MHz(1.5nH-43nH)
@200MHz(47nH-68nH)
@150MHz(72nH-120nH)
- Operating Temperature: -55°C to 125°C
- Storage Temperature: -55°C to 125°C
- Solderability: Max 260°C for 10 seconds

SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC0603F SERIES



FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

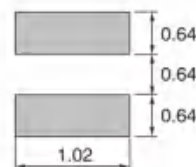
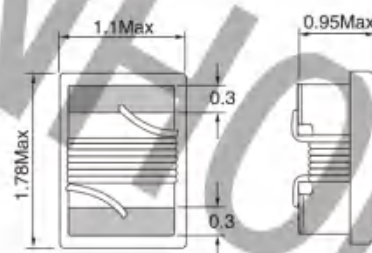
- Low DC resistance, high current and high inductance and high reliability

ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0603F-R10□	100@7.9MHz	10,5	12@7.9MHz	1150	0.13	1000
AISC0603F-R12□	120@7.9MHz	10,5	12@7.9MHz	1100	0.16	900
AISC0603F-R15□	150@7.9MHz	10,5	12@7.9MHz	1050	0.15	700
AISC0603F-R18□	180@7.9MHz	10,5	12@7.9MHz	950	0.15	600
AISC0603F-R22□	220@7.9MHz	10,5	12@7.9MHz	900	0.16	500
AISC0603F-R27□	270@7.9MHz	10,5	12@7.9MHz	775	0.30	420
AISC0603F-R33□	330@7.9MHz	10,5	12@7.9MHz	725	0.32	400
AISC0603F-R39□	390@7.9MHz	10,5	12@7.9MHz	620	0.51	380
AISC0603F-R47□	470@7.9MHz	10,5	12@7.9MHz	540	0.62	350
AISC0603F-R56□	560@7.9MHz	10,5	12@7.9MHz	600	0.65	330
AISC0603F-R68□	680@7.9MHz	10,5	12@7.9MHz	500	1.00	1000
AISC0603F-R82□	820@7.9MHz	10,5	12@7.9MHz	500	1.30	1000
AISC0603F-1R0□	1000@7.9MH	10,5	12@7.9MHz	400	1.50	1000
AISC0603F-1R2□	1200@7.9MH	10,5	12@7.9MHz	380	1.70	320
AISC0603F-1R5□	1500@7.9MH	10,5	12@7.9MHz	300	1.90	310
AISC0603F-1R8□	1800@7.9MH	10,5	12@7.9MHz	180	2.20	300
AISC0603F-2R2□	2200@7.9MH	10,5	12@7.9MHz	180	2.30	280
AISC0603F-2R7□	2700@7.9MH	10,5	12@7.9MHz	150	2.60	250
AISC0603F-3R3□	3300@7.9MH	10,5	12@7.9MHz	150	2.90	230
AISC0603F-3R9□	3900@7.9MH	10,5	12@7.9MHz	120	3.20	210
AISC0603F-4R7□	4700@7.9MH	10,5	12@7.9MHz	100	4.00	200

Dimensions:(mm)



PCB LAYOUT

Winding



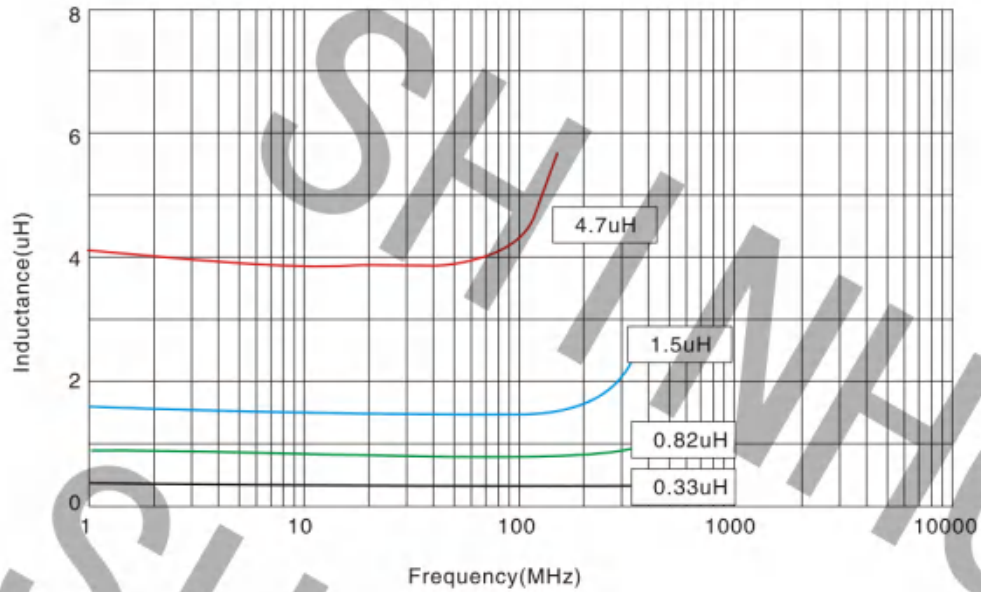
□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

NOTES:

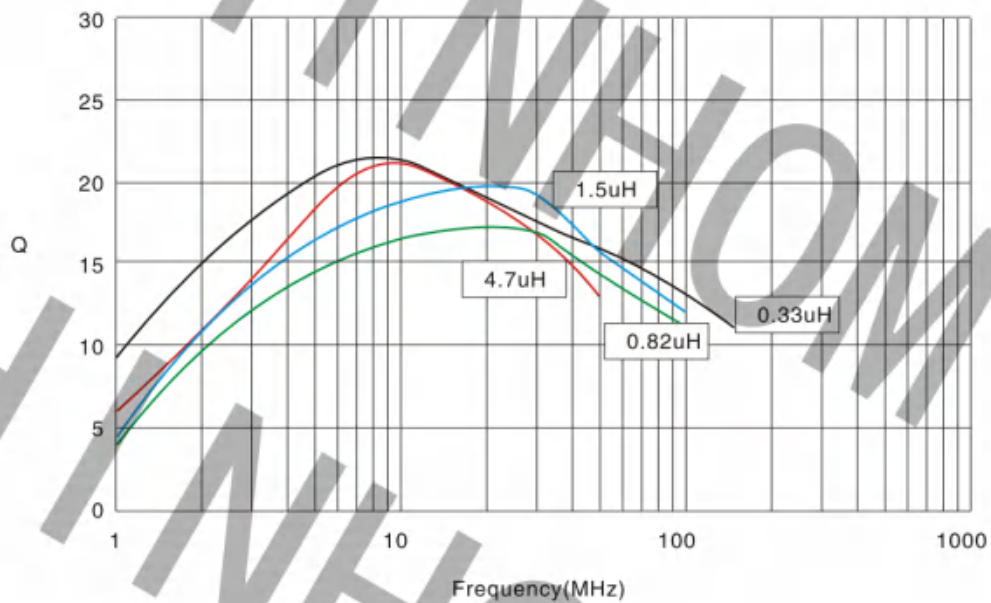
- Testing: (Equivalent acceptable)@ 25℃ Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: -40℃ to +125℃
- Solder methods: Wave, Reflow,Vapor Phase
- Solderability: Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC0805F SERIES



FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

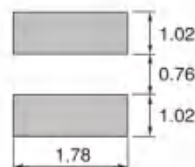
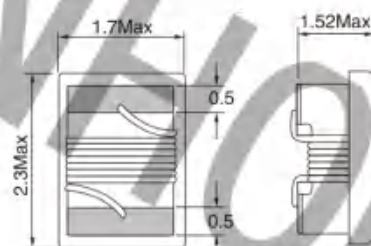
- Low DC resistance, high current and high inductance and high reliability

ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(μH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0805F-1R0□	1.0@7.96MHz	10,5	12@7.96MHz	360	1.00	430
AISC0805F-1R2□	1.2@7.96MHz	10,5	12@7.96MHz	350	1.15	410
AISC0805F-1R5□	1.5@7.96MHz	10,5	12@7.96MHz	300	1.20	400
AISC0805F-1R8□	1.8@7.96MHz	10,5	12@7.96MHz	200	1.35	380
AISC0805F-2R2□	2.2@7.96MHz	10,5	12@7.96MHz	170	1.50	350
AISC0805F-2R7□	2.7@7.96MHz	10,5	12@7.96MHz	100	1.70	320
AISC0805F-3R3□	3.3@7.96MHz	10,5	12@7.96MHz	90	1.80	300
AISC0805F-3R9□	3.9@7.96MHz	10,5	12@7.96MHz	90	1.95	280
AISC0805F-4R7□	4.7@7.96MHz	10,5	12@7.96MHz	85	2.05	250
AISC0805F-5R6□	5.6@7.96MHz	10,5	12@7.96MHz	70	2.30	240
AISC0805F-6R8□	6.8@7.96MHz	10,5	12@7.96MHz	55	2.60	220
AISC0805F-7R5□	7.5@7.96MHz	10,5	12@7.96MHz	55	2.80	210
AISC0805F-8R2□	8.2@7.96MHz	10,5	12@7.96MHz	50	3.00	180
AISC0805F-100□	10@2.52MHz	10,5	10@2.52MHz	30	3.20	150
AISC0805F-120□	12@2.52MHz	10,5	10@2.52MHz	17	3.50	110
AISC0805F-150□	15@2.52MHz	10,5	10@2.52MHz	16	4.20	100
AISC0805F-180□	18@2.52MHz	10,5	10@2.52MHz	15	4.50	95
AISC0805F-220□	22@2.52MHz	10,5	10@2.52MHz	14	6.00	80

Dimensions:(mm)



PCB LAYOUT

Winding



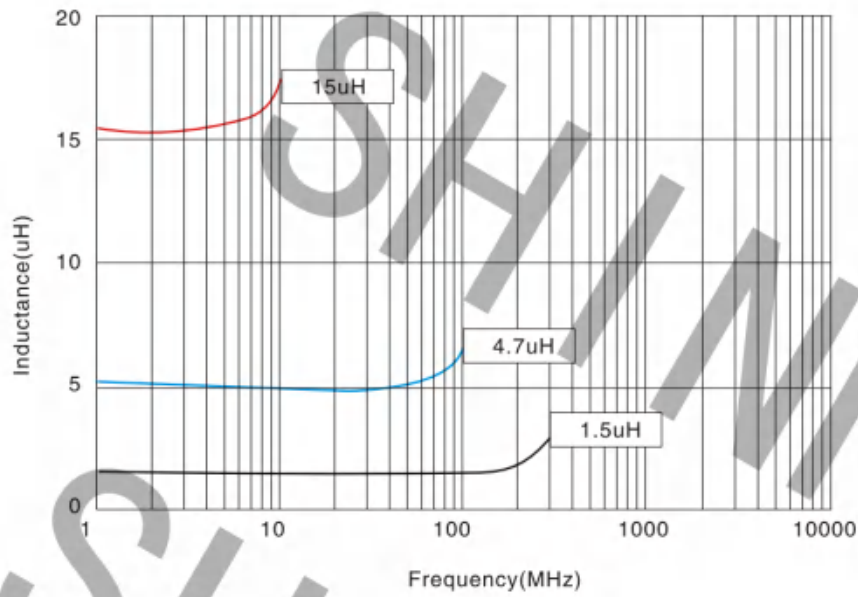
□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

NOTES:

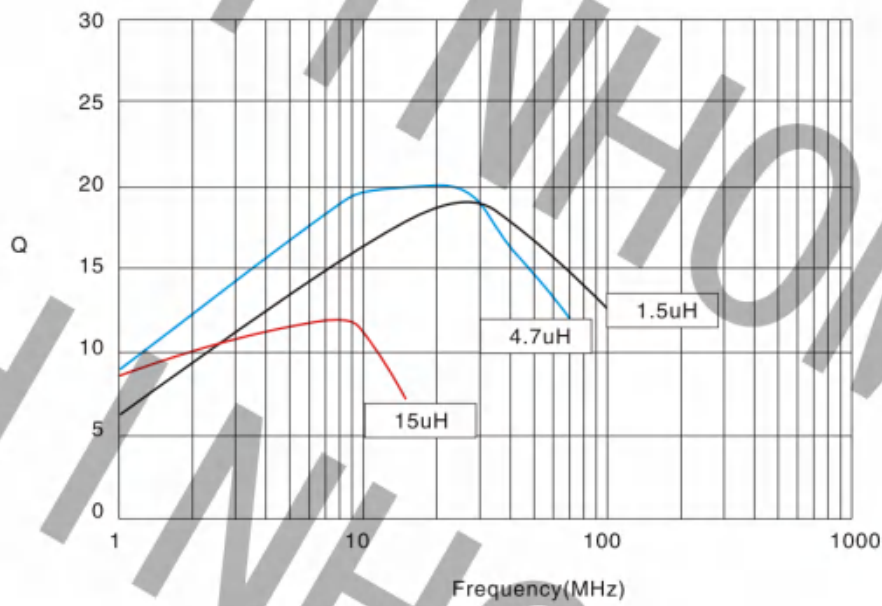
- Testing: (Equivalent acceptable) @ 25°C Inductance, Q: HP4191A, SRF: HP8753B
- Operating Temperature: -40°C to +125°C
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260°C for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1008F SERIES

FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

- Low DC resistance, high current and high inductance and high reliability



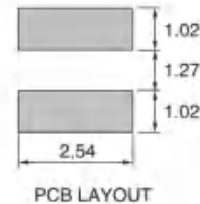
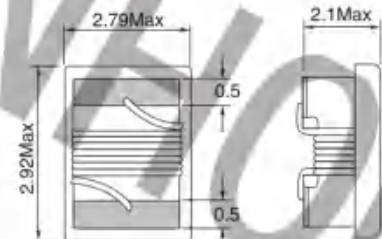
ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(μH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1008F-1R0□	1.0@25.2MHz	10,5	18@25.2MHz	300	0.55	580
AISC1008F-1R2□	1.2@7.96MHz	10,5	18@7.96MHz	250	0.75	550
AISC1008F-1R5□	1.5@7.96MHz	10,5	18@7.96MHz	230	0.85	400
AISC1008F-1R8□	1.8@7.96MHz	10,5	18@7.96MHz	168	0.95	320
AISC1008F-2R2□	2.2@7.96MHz	10,5	18@7.96MHz	150	1.30	315
AISC1008F-2R7□	2.7@7.96MHz	10,5	18@7.96MHz	100	1.40	300
AISC1008F-3R3□	3.3@7.96MHz	10,5	18@7.96MHz	80	1.50	280
AISC1008F-3R9□	3.9@7.96MHz	10,5	18@7.96MHz	60	1.55	250
AISC1008F-4R7□	4.7@7.96MHz	10,5	18@7.96MHz	50	1.75	210
AISC1008F-5R6□	5.6@7.96MHz	10,5	15@7.96MHz	40	1.90	190
AISC1008F-6R8□	6.8@7.96MHz	10,5	15@7.96MHz	35	2.00	175
AISC1008F-7R5□	7.5@7.96MHz	10,5	15@7.96MHz	30	2.10	170
AISC1008F-8R2□	8.2@7.96MHz	10,5	15@7.96MHz	25	2.20	160
AISC1008F-100□	10@2.52MHz	10,5	12@2.52MHz	25	2.50	155
AISC1008F-120□	12@2.52MHz	10,5	12@2.52MHz	20	2.60	145
AISC1008F-150□	15@2.52MHz	10,5	12@2.52MHz	20	3.00	130
AISC1008F-180□	18@2.52MHz	10,5	12@2.52MHz	20	3.00	130
AISC1008F-220□	22@2.52MHz	10,5	12@2.52MHz	18	3.90	105
AISC1008F-270□	27@2.52MHz	10,5	12@2.52MHz	10	4.00	100
AISC1008F-330□	33@2.52MHz	10,5	10@2.52MHz	8	4.80	85
AISC1008F-390□	39@2.52MHz	10,5	10@2.52MHz	7	5.00	80
AISC1008F-470□	47@2.52MHz	10,5	10@2.52MHz	7	5.70	60
AISC1008F-560□	56@2.52MHz	10,5	10@2.52MHz	6.5	6.00	55
AISC1008F-680□	68@2.52MHz	10,5	10@2.52MHz	6.5	6.70	50
AISC1008F-820□	82@2.52MHz	10,5	10@2.52MHz	6.5	7.50	45
AISC1008F-101□	100@0.796MHz	10,5	8@0.796MHz	4.5	11.0	40
AISC1008F-121□	120@0.796MHz	10,5	8@0.796MHz	3.0	13.0	30
AISC1008F-151□	150@0.796MHz	10,5	8@0.796MHz	3.0	15.0	25
AISC1008F-221□	220@0.796MHz	10	8@0.796MHz	2.5	18.0	20

□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

Dimensions:(mm)



PCB LAYOUT

Winding

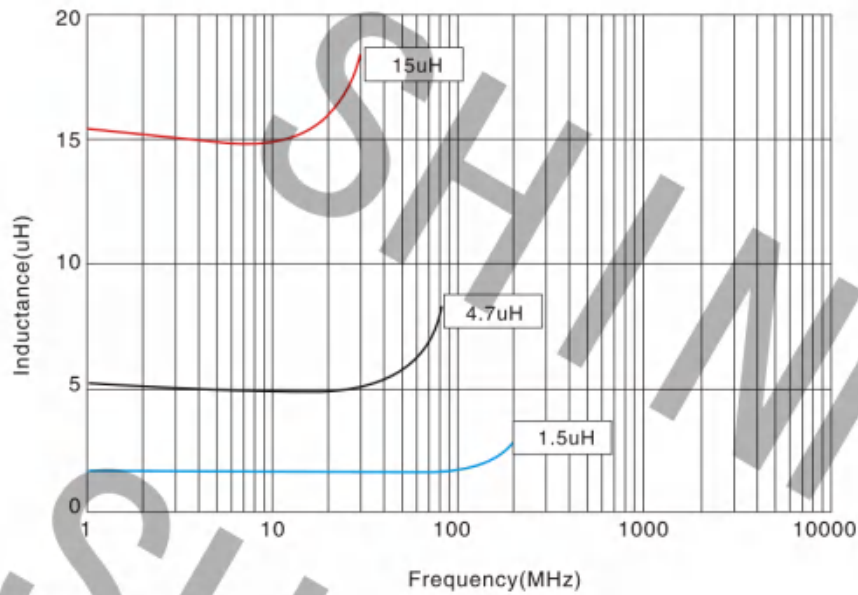


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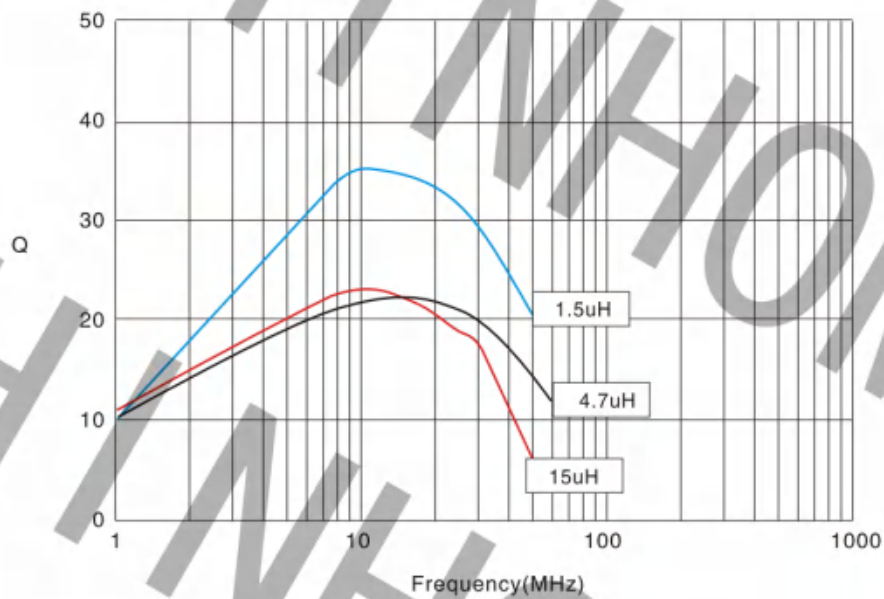
- Testing: (Equivalent acceptable)@ 25℃ Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: -40℃ to +125℃
- Solder methods: Wave, Reflow,Vapor Phase
- Solderability: Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1206F SERIES

FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

- Low DC resistance high current and high inductance and high reliability



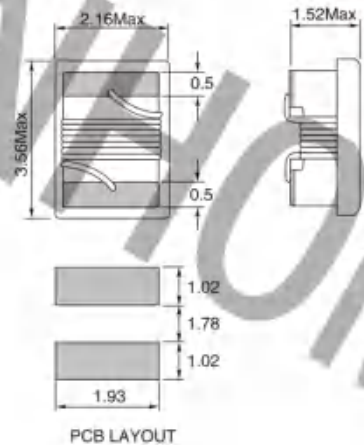
ELECTRICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1206F-1R5□	1.5@7.96MHz	20,10,5	25@7.96MHz	260	1.2	320
AISC1206F-1R8□	1.8@7.96MHz	20,10,5	25@7.96MHz	250	1.2	320
AISC1206F-2R2□	2.2@7.96MHz	20,10,5	25@7.96MHz	240	1.3	300
AISC1206F-2R7□	2.7@7.96MHz	20,10,5	25@7.96MHz	230	1.4	300
AISC1206F-3R3□	3.3@7.96MHz	20,10,5	25@7.96MHz	200	1.5	280
AISC1206F-3R9□	3.9@7.96MHz	20,10,5	25@7.96MHz	190	1.9	280
AISC1206F-4R7□	4.7@7.96MHz	20,10,5	25@7.96MHz	170	2.2	280
AISC1206F-5R6□	5.6@7.96MHz	20,10,5	25@7.96MHz	160	2.4	260
AISC1206F-6R8□	6.8@7.96MHz	20,10,5	25@7.96MHz	150	2.8	240
AISC1206F-8R2□	8.2@7.96MHz	20,10,5	25@7.96MHz	130	3.1	220
AISC1206F-100□	10@7.96MHz	20,10,5	25@7.96MHz	120	4.0	200
AISC1206F-120□	12@2.52MHz	20,10,5	18@2.52MHz	110	4.6	200
AISC1206F-150□	15@2.52MHz	20,10,5	16@2.52MHz	90	8.2	160
AISC1206F-180□	18@2.52MHz	20,10,5	15@2.52MHz	80	9.0	130

□ G= ±2%, J= ±5%, K= ±10%, M= ±20%, N= ±30%

PHYSICAL CHARACTERISTICS:

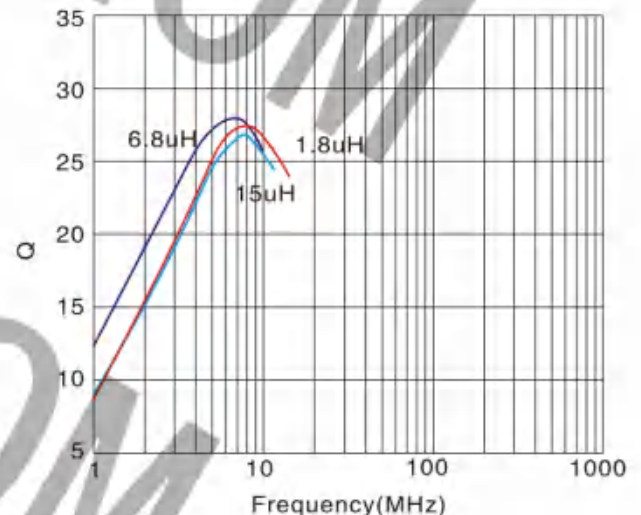
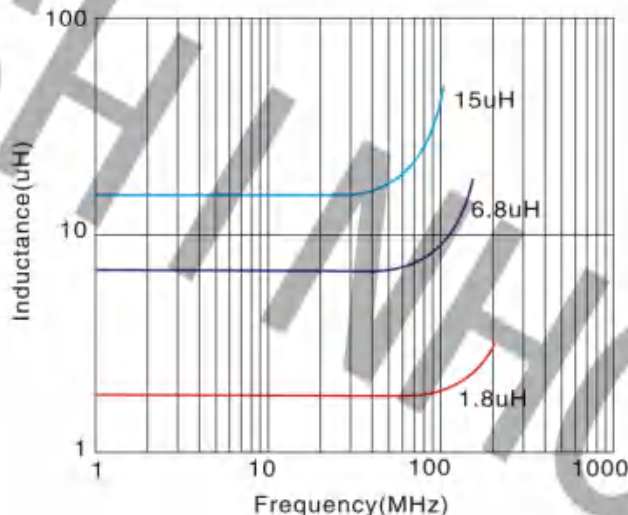
Dimensions:(mm)



Winding



TYPICAL CURVE:



- Testing: (Equivalent acceptable)@ 25℃
- Operating Temperature: -40℃ to +125℃
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1210F SERIES

FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

- Low DC resistance, high current and high inductance and high reliability

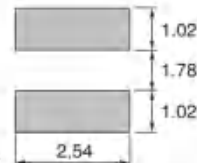
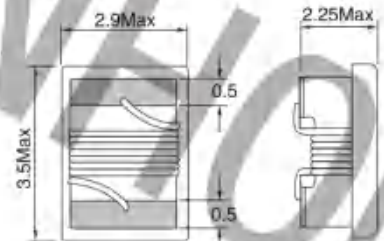


ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1210F-1R0□	1.0@7.96MHz	10,5	20@7.96MHz	220	0,3	450
AISC1210F-1R2□	1.2@7.96MHz	10,5	20@7.96MHz	210	0,3	450
AISC1210F-1R5□	1.5@7.96MHz	10,5	20@7.96MHz	200	0,4	450
AISC1210F-1R8□	1.8@7.96MHz	10,5	20@7.96MHz	195	0,5	450
AISC1210F-2R2□	2.2@7.96MHz	10,5	20@7.96MHz	175	0,6	450
AISC1210F-2R7□	2.7@7.96MHz	10,5	20@7.96MHz	120	0,7	420
AISC1210F-3R3□	3.3@7.96MHz	10,5	20@7.96MHz	80	1,1	380
AISC1210F-3R9□	3.9@7.96MHz	10,5	20@7.96MHz	75	1,2	360
AISC1210F-4R7□	4.7@7.96MHz	10,5	18@7.96MHz	60	1,3	350
AISC1210F-5R6□	5.6@7.96MHz	10,5	18@7.96MHz	50	2,0	320
AISC1210F-6R8□	6.8@7.96MHz	10,5	18@7.96MHz	35	1,5	310
AISC1210F-8R2□	8.2@7.96MHz	10,5	18@7.96MHz	35	1,6	305
AISC1210F-100□	10@2.52MHz	10,5	15@2.52MHz	30	1,0	300
AISC1210F-120□	12@2.52MHz	10,5	15@2.52MHz	25	1,2	265
AISC1210F-150□	15@2.52MHz	10,5	15@2.52MHz	22	2,0	225
AISC1210F-180□	18@2.52MHz	10,5	15@2.52MHz	22	2,1	210
AISC1210F-220□	22@2.52MHz	10,5	15@2.52MHz	20	2,4	200
AISC1210F-270□	27@2.52MHz	10,5	15@2.52MHz	18	2,7	180
AISC1210F-330□	33@2.52MHz	10,5	15@2.52MHz	15	2,9	160
AISC1210F-390□	39@2.52MHz	10,5	15@2.52MHz	16	4,7	150
AISC1210F-470□	47@2.52MHz	10,5	15@2.52MHz	10	5,2	140
AISC1210F-560□	56@2.52MHz	10,5	15@2.52MHz	8	5,6	125
AISC1210F-680□	68@2.52MHz	10,5	12@2.52MHz	5	4,7	110
AISC1210F-820□	82@2.52MHz	10,5	12@2.52MHz	5	5,6	100
AISC1210F-101□	100@0.796MHz	10,5	10@0.796MHz	5	6,8	95
AISC1210F-121□	120@0.796MHz	10,5	10@0.796MHz	4	7,9	85
AISC1210F-151□	150@0.796MHz	10,5	10@0.796MHz	4,0	9,0	80
AISC1210F-181□	180@0.796MHz	10,5	8@0.796MHz	3,0	14,5	70
AISC1210F-221□	220@0.796MHz	10,5	8@0.796MHz	2,8	16,5	65
AISC1210F-271□	270@0.796MHz	10	8@0.796MHz	2,5	18,0	60
AISC1210F-331□	330@0.796MHz	10	8@0.796MHz	2,3	19,0	55
AISC1210F-391□	390@0.796MHz	10	8@0.796MHz	2,2	21,5	45
AISC1210F-471□	470@0.796MHz	10	8@0.796MHz	2,0	22,5	40
AISC1210F-561□	560@0.796MHz	10	6@0.796MHz	1,5	28,0	30

Dimensions:(mm)



PCB LAYOUT

Winding



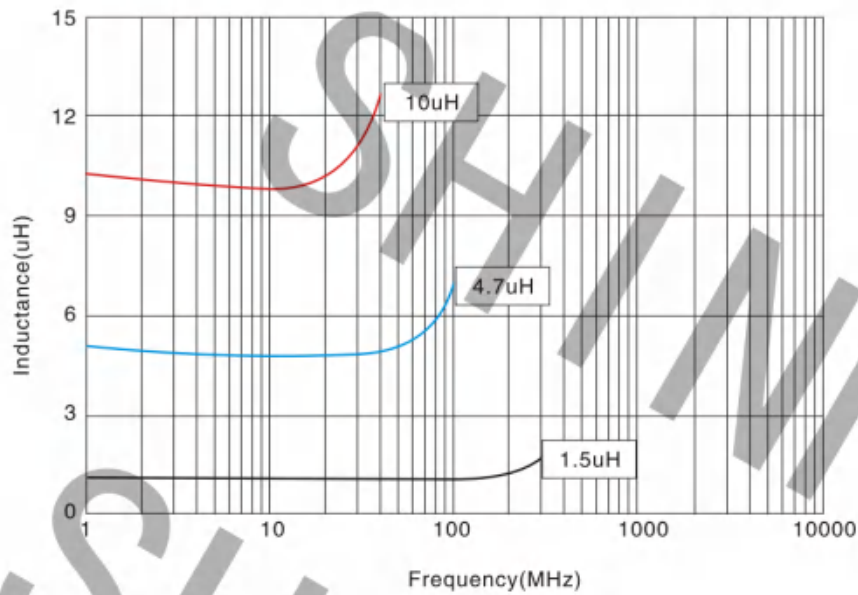
□ G= ± 2%, J= ± 5%, K= ± 10%,
M= ± 20%, N= ± 30%

NOTES:

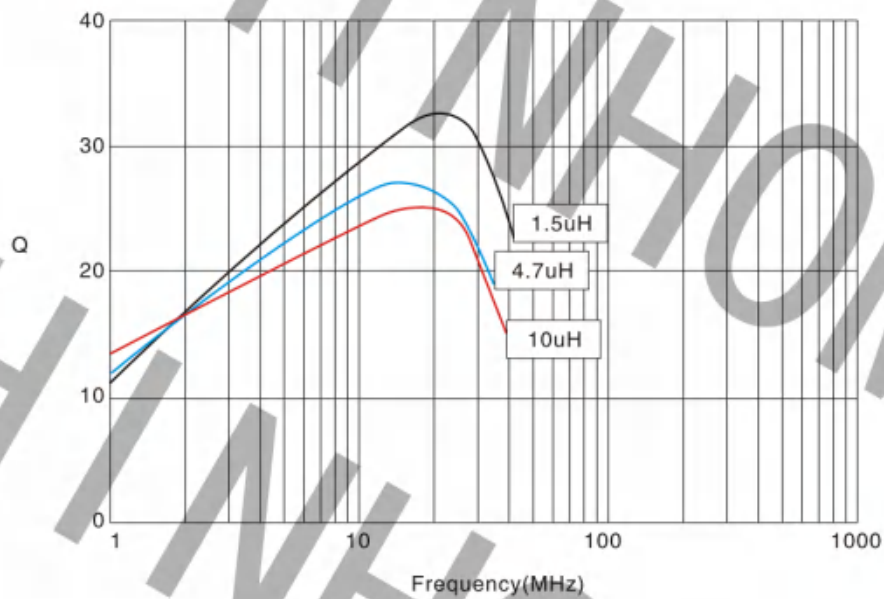
- Testing: (Equivalent acceptable)@ 25℃ Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: -40℃ to +125℃
- Solder methods: Wave, Reflow,Vapor Phase
- Solderability: Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1812F SERIES

FEATURES:

- Miniature size, suitable for SMT
- Low DC resistance, high current and high inductance and high reliability

APPLICATIONS:

- Low DC resistance, high current and high inductance and high reliability

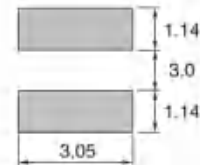
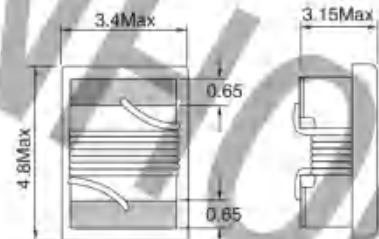


ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1812F-1R0□	1.0@7.96MHz	10,5	25@7.96MHz	200	0.22	1000
AISC1812F-1R2□	1.2@7.96MHz	10,5	25@7.96MHz	200	0.35	1000
AISC1812F-1R5□	1.5@7.96MHz	10,5	25@7.96MHz	180	0.32	1000
AISC1812F-1R8□	1.8@7.96MHz	10,5	25@7.96MHz	160	0.35	950
AISC1812F-2R2□	2.2@7.96MHz	10,5	25@7.96MHz	150	0.37	900
AISC1812F-2R7□	2.7@7.96MHz	10,5	25@7.96MHz	145	0.37	850
AISC1812F-3R3□	3.3@7.96MHz	10,5	25@7.96MHz	140	0.48	800
AISC1812F-3R9□	3.9@7.96MHz	10,5	25@7.96MHz	135	0.60	750
AISC1812F-4R7□	4.7@7.96MHz	10,5	25@7.96MHz	120	1.00	700
AISC1812F-5R6□	5.6@7.96MHz	10,5	25@7.96MHz	110	0.55	650
AISC1812F-6R8□	6.8@7.96MHz	10,5	25@7.96MHz	80	0.80	600
AISC1812F-8R2□	8.2@7.96MHz	10,5	20@7.96MHz	70	0.85	600
AISC1812F-100□	10@2.52MHz	10,5	20@2.52MHz	60	1.0	550
AISC1812F-120□	12@2.52MHz	10,5	20@2.52MHz	55	1.1	650
AISC1812F-150□	15@2.52MHz	10,5	18@2.52MHz	35	1.2	500
AISC1812F-180□	18@2.52MHz	10,5	18@2.52MHz	29	1.2	500
AISC1812F-220□	22@2.52MHz	10,5	18@2.52MHz	20	1.3	450
AISC1812F-270□	27@2.52MHz	10,5	18@2.52MHz	20	1.5	400
AISC1812F-330□	33@2.52MHz	10,5	18@2.52MHz	18	1.7	350
AISC1812F-390□	39@2.52MHz	10,5	18@2.52MHz	14	1.8	350
AISC1812F-470□	47@2.52MHz	10,5	16@2.52MHz	10	2.0	300
AISC1812F-560□	56@2.52MHz	10,5	16@2.52MHz	10	2.2	290
AISC1812F-680□	68@2.52MHz	10,5	12@2.52MHz	5.4	2.4	260
AISC1812F-820□	82@2.52MHz	10,5	12@2.52MHz	5.2	2.8	240
AISC1812F-101□	100@796KHz	10,5	12@796KHz	4.0	3.0	220
AISC1812F-121□	120@796KHz	10,5	10@796KHz	3.3	3.3	220
AISC1812F-151□	150@796KHz	10,5	10@796KHz	3.0	3.7	200
AISC1812F-181□	180@796KHz	10,5	10@796KHz	3.0	4.5	200
AISC1812F-221□	220@796KHz	10	10@796KHz	2.5	8.0	170
AISC1812F-271□	270@796KHz	10,5	10@796KHz	2.2	8.5	160
AISC1812F-331□	330@796KHz	10,5	10@796KHz	2.0	9.0	150
AISC1812F-391□	390@796KHz	10	10@796KHz	1.8	9.5	130
AISC1812F-471□	470@796KHz	10	8@796KHz	1.6	12.0	120
AISC1812F-561□	560@796KHz	10	8@796KHz	1.5	12.5	110
AISC1812F-681□	680@796KHz	10	8@796KHz	1.5	14.0	100
AISC1812F-751□	750@796KHz	10	8@796KHz	1.5	14.5	95
AISC1812F-821□	820@796KHz	10	8@796KHz	1.5	15.0	95
AISC1812F-102□	1000@252KHz	10	6@252KHz	1.4	16.5	90

Dimensions:(mm)



PCB LAYOUT

Winding



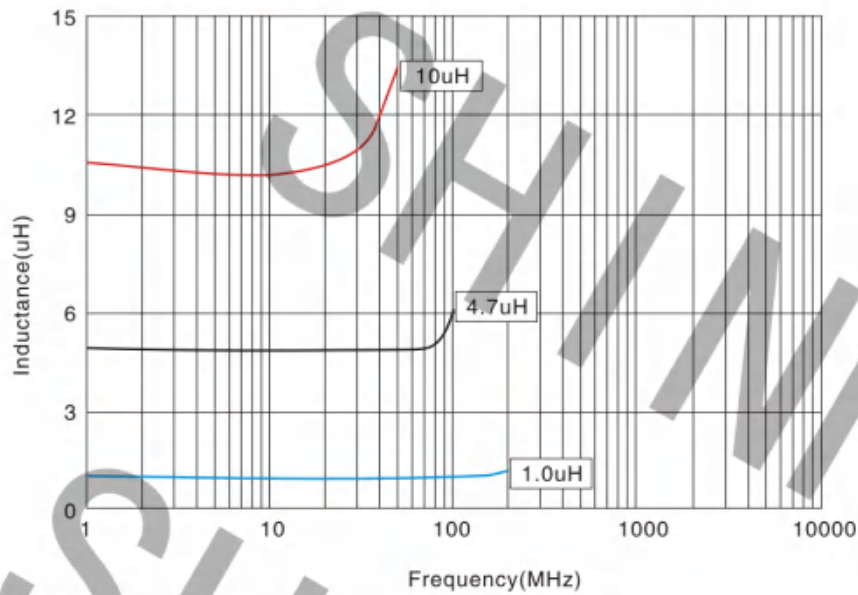
□ G=±2%, J=±5%, K=±10%,
M=±20%, N=±30%

NOTES:

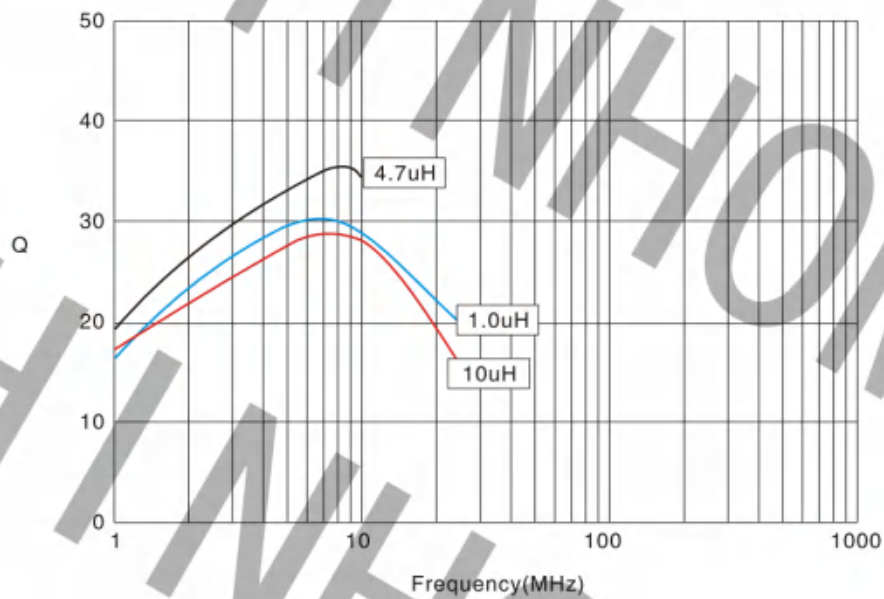
- Testing: (Equivalent acceptable)@ 25°C Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: -40°C to +125°C
- Solder methods: Wave, Reflow,Vapor Phase
- Solderability: Max 260°C for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1008 SERIES



FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

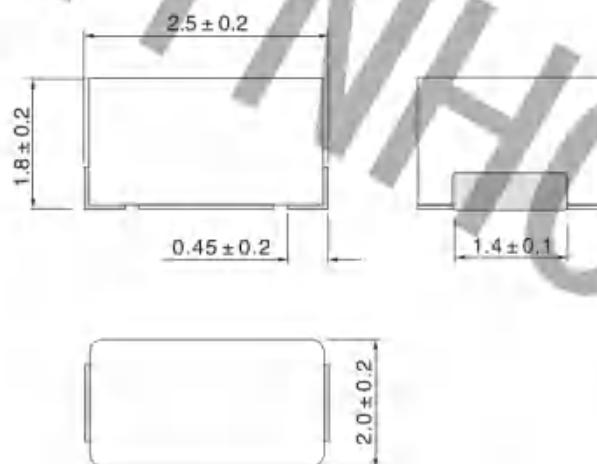
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

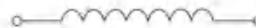
ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz	Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM1008-10NK	.010	±10	10	2150	0.26	530	100	AISM1008-1R2J	1.2	±5	30	180	1.20	230	7.96
AISM1008-12NK	.012	±10	15	2050	0.27	500	100	AISM1008-1R5J	1.5	±5	30	135	1.30	200	7.96
AISM1008-15NK	.015	±10	15	1850	0.31	480	100	AISM1008-1R8J	1.8	±5	30	100	1.45	210	7.96
AISM1008-18NK	.018	±10	15	1650	0.34	450	100	AISM1008-2R2J	2.2	±5	30	75	1.55	200	7.96
AISM1008-22NK	.022	±10	15	1550	0.38	420	100	AISM1008-2R7J	2.7	±5	30	55	1.70	195	7.96
AISM1008-27NK	.027	±10	15	1400	0.42	410	100	AISM1008-3R3J	3.3	±5	30	48	1.90	185	7.96
AISM1008-33NK	.033	±10	15	1250	0.46	400	100	AISM1008-3R9J	3.9	±5	30	43	2.10	180	7.96
AISM1008-39NK	.039	±10	20	1100	0.50	380	100	AISM1008-4R7J	4.7	±5	30	40	2.30	175	7.96
AISM1008-47NK	.047	±10	20	1050	0.56	360	100	AISM1008-5R6J	5.6	±5	25	36	2.50	170	7.96
AISM1008-56NK	.056	±10	20	950	0.65	340	100	AISM1008-6R8J	6.8	±5	25	33	2.70	165	7.96
AISM1008-68NK	.068	±10	20	900	0.70	320	100	AISM1008-8R2J	8.2	±5	25	30	3.05	160	7.96
AISM1008-82NK	.082	±10	20	850	0.75	300	100	AISM1008-100J	10	±5	25	27	3.50	155	2.52
AISM1008-R10K	.10	±10	20	700	0.80	280	100	AISM1008-120J	12	±5	25	23	3.80	150	2.52
AISM1008-R12K	.12	±10	30	600	0.87	250	25.2	AISM1008-150J	15	±5	25	20	4.40	140	2.52
AISM1008-R15K	.15	±10	30	550	0.92	240	25.2	AISM1008-180J	18	±5	25	18	4.80	130	2.52
AISM1008-R18K	.18	±10	30	500	0.96	220	25.2	AISM1008-220J	22	±5	25	17	5.50	125	2.52
AISM1008-R22K	.22	±10	30	450	0.96	200	25.2	AISM1008-270J	27	±5	25	16	6.30	115	2.52
AISM1008-R27K	.27	±10	30	425	0.96	190	25.2	AISM1008-330J	33	±5	20	15	7.10	110	2.52
AISM1008-R33K	.33	±10	30	400	0.96	180	25.2	AISM1008-390J	39	±5	20	14	9.50	90	2.52
AISM1008-R39K	.39	±10	30	375	0.96	170	25.2	AISM1008-470J	47	±5	20	13	11.10	80	2.25
AISM1008-R47K	.47	±10	30	350	0.96	160	25.2	AISM1008-560J	56	±5	20	12	12.10	75	2.52
AISM1008-R56K	.56	±10	30	300	0.96	150	25.2	AISM1008-680J	68	±5	20	11	16.60	70	2.52
AISM1008-R68K	.68	±10	30	270	0.96	140	25.2	AISM1008-820J	82	±5	20	10	19.00	65	2.52
AISM1008-R82K	.82	±10	30	250	1.00	130	25.2	AISM1008-101J	100	±5	15	9	21.00	60	0.796
AISM1008-1R0J	1.00	±5	30	220	1.10	245	7.96								

PHYSICAL CHARACTERISTICS



Winding



- Testing: (Equivalent acceptable)
Inductance: HP4285A
RDC: QuadTech 1880 Milliohmmer
Q: HP4342A
SRF: HP4291A
- Operating temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AIMS1210 SERIES

FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

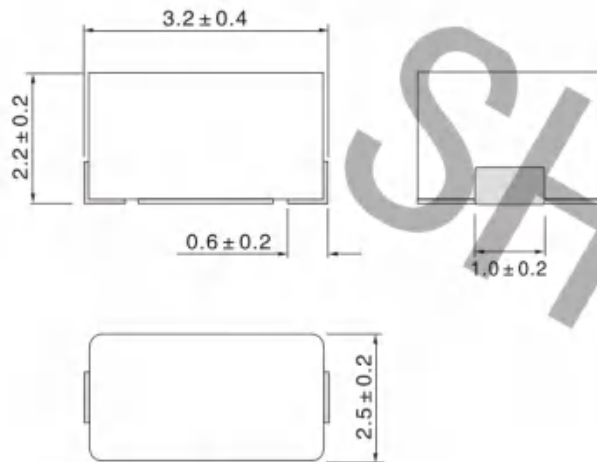


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency LQ (MHz)	Self-resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AIMS1210-R10 □	0.1	±20, ±10%	28	100	700	0.44	450
AIMS1210-R12 □	0.12	±20, ±10%	30	25.2	500	0.22	450
AIMS1210-R15 □	0.15	±20, ±10%	30	25.2	450	0.25	450
AIMS1210-R18 □	0.18	±20, ±10%	30	25.2	400	0.26	450
AIMS1210-R22 □	0.22	±20, ±10%	30	25.2	350	0.32	450
AIMS1210-R27 □	0.27	±20, ±10%	30	25.2	320	0.36	450
AIMS1210-R33 □	0.33	±20, ±10%	30	25.2	300	0.4	450
AIMS1210-R39 □	0.39	±20, ±10%	30	25.2	250	0.45	450
AIMS1210-R47 □	0.47	±20, ±10%	30	25.2	220	0.5	450
AIMS1210-R56 □	0.56	±20, ±10%	30	25.2	180	0.55	450
AIMS1210-R68 □	0.68	±20, ±10%	30	25.2	160	0.6	450
AIMS1210-R82 □	0.82	±20, ±10%	30	25.2	140	0.65	450
AIMS1210-1R0 □	1	±10%, ±5%	30	7.96	120	0.7	400
AIMS1210-1R2 □	1.2	±10%, ±5%	30	7.96	100	0.75	390
AIMS1210-1R5 □	1.5	±10%, ±5%	30	7.96	85	0.85	370
AIMS1210-1R8 □	1.8	±10%, ±5%	30	7.96	80	0.9	350
AIMS1210-2R2 □	2.2	±10%, ±5%	30	7.96	75	1	320
AIMS1210-2R7 □	2.7	±10%, ±5%	30	7.96	70	1.1	290
AIMS1210-3R3 □	3.3	±10%, ±5%	30	7.96	60	1.2	260
AIMS1210-3R9 □	3.9	±10%, ±5%	30	7.96	55	1.3	250
AIMS1210-4R7 □	4.7	±10%, ±5%	30	7.96	50	1.5	220
AIMS1210-5R6 □	5.6	±10%, ±5%	30	7.96	45	1.6	200
AIMS1210-6R8 □	6.8	±10%, ±5%	30	7.96	40	1.8	180
AIMS1210-8R2 □	8.2	±10%, ±5%	30	7.96	35	2	170
AIMS1210-100 □	10	±10%, ±5%	30	2.52	30	2.1	150
AIMS1210-120 □	12	±10%, ±5%	30	2.52	20	2.5	140
AIMS1210-150 □	15	±10%, ±5%	30	2.52	20	2.8	130
AIMS1210-180 □	18	±10%, ±5%	30	2.52	20	3.3	120
AIMS1210-220 □	22	±10%, ±5%	30	2.52	20	3.7	110
AIMS1210-270 □	27	±10%, ±5%	30	2.52	20	5	80
AIMS1210-330 □	33	±10%, ±5%	30	2.52	17	5.6	70
AIMS1210-390 □	39	±10%, ±5%	30	2.52	16	6.4	65
AIMS1210-470 □	47	±10%, ±5%	30	2.52	15	7	60
AIMS1210-560 □	56	±10%, ±5%	30	2.52	13	8	55
AIMS1210-680 □	68	±10%, ±5%	30	2.52	12	9	50
AIMS1210-820 □	82	±10%, ±5%	30	2.52	11	10	45
AIMS1210-101 □	100	±10%, ±5%	20	0.796	10	10	40
AIMS1210-121 □	120	±10%, ±5%	20	0.796	10	11	70
AIMS1210-151 □	150	±10%, ±5%	20	0.796	8	15	65
AIMS1210-181 □	180	±10%, ±5%	20	0.796	7	17	60
AIMS1210-221 □	220	±10%, ±5%	20	0.796	7	21	50

□ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

PHYSICAL CHARACTERISTICS

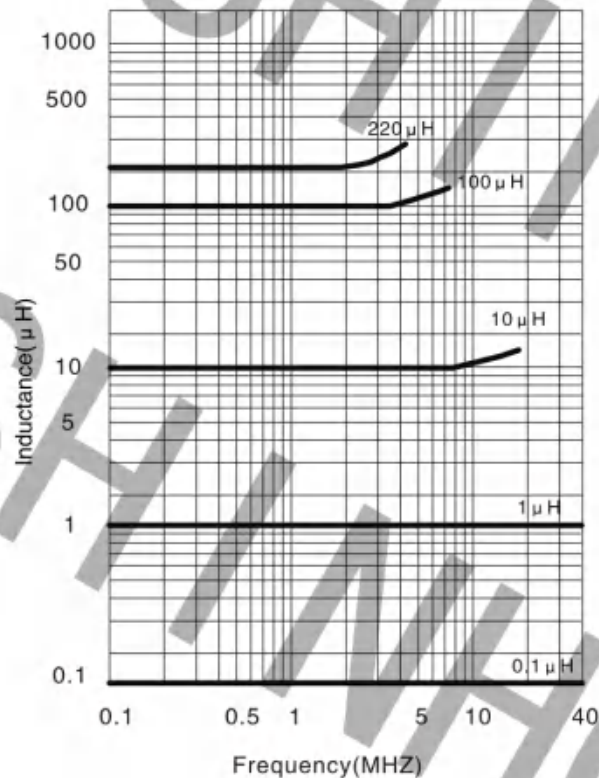


Winding

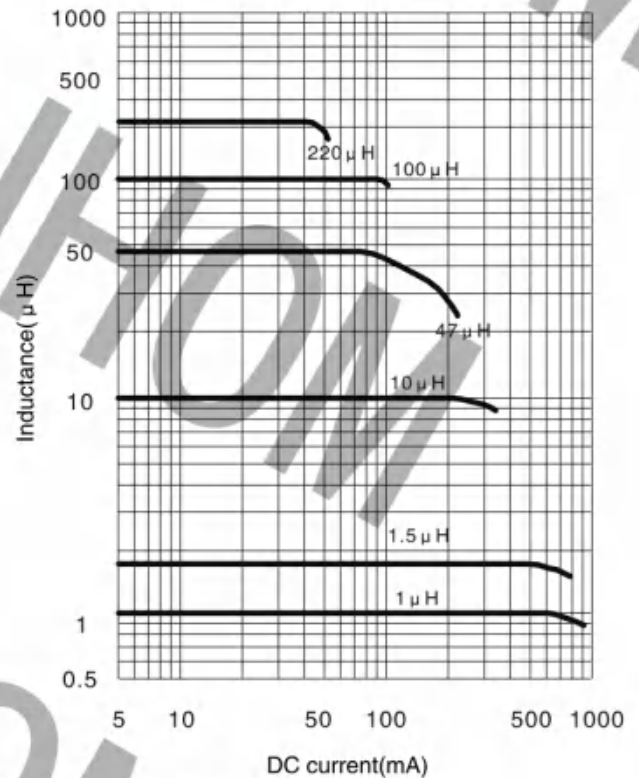


- Testing: (Equivalent acceptable)
Inductance: HP4285A
RDC: QuadTech 1880 Milliohm meter
Q: HP4342A
SRF: HP4291A
- Operating temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Inductance & Tolerance

INDUCTANCE VS FREQUENCY CURVE



IMPEDANCE VS FREQUENCY CURVE



SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AIMS1812 SERIES

FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

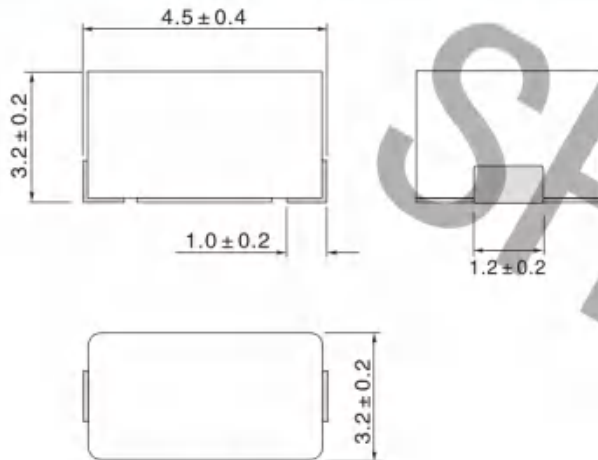


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (μH)	Inductance Tolerance (%)	Q min.	Test Frequency L, Q (MHz)	Self-resonant Frequency (MHz) min.	DC resistance (Ω) max.	Rated current (mA) max.
AIMS1812-R10 □	0.1	±10%, ±20%	35	25.2	300	0.18	800
AIMS1812-R12 □	0.12	±10%, ±20%	35	25.2	280	0.20	770
AIMS1812-R15 □	0.15	±10%, ±20%	35	25.2	250	0.22	730
AIMS1812-R18 □	0.18	±10%, ±20%	35	25.2	220	0.24	700
AIMS1812-R22 □	0.22	±10%, ±20%	40	25.2	200	0.25	665
AIMS1812-R27 □	0.27	±10%, ±20%	40	25.2	180	0.26	635
AIMS1812-R33 □	0.33	±10%, ±20%	40	25.2	165	0.28	605
AIMS1812-R39 □	0.39	±10%, ±20%	40	25.2	150	0.30	575
AIMS1812-R47 □	0.47	±10%, ±20%	40	25.2	145	0.32	545
AIMS1812-R56 □	0.56	±10%, ±20%	40	25.2	140	0.36	520
AIMS1812-R68 □	0.68	±10%, ±20%	40	25.2	135	0.40	500
AIMS1812-R82 □	0.82	±10%, ±20%	40	25.2	130	0.45	475
AIMS1812-1R0 □	1.0	±10%, ±20%	50	7.96	100	0.5	450
AIMS1812-1R2 □	1.2	±10%, ±20%	50	7.96	80	0.55	430
AIMS1812-1R5 □	1.5	±10%, ±20%	50	7.96	70	0.6	410
AIMS1812-1R8 □	1.8	±10%, ±20%	50	7.96	60	0.65	390
AIMS1812-2R2 □	2.2	±10%, ±20%	50	7.96	55	0.7	380
AIMS1812-2R7 □	2.7	±10%, ±20%	50	7.96	50	0.75	370
AIMS1812-3R3 □	3.3	±10%, ±20%	50	7.96	45	0.8	355
AIMS1812-3R9 □	3.9	±10%, ±20%	50	7.96	40	0.9	330
AIMS1812-4R7 □	4.7	±10%, ±20%	50	7.96	35	1	315
AIMS1812-5R6 □	5.6	±10%, ±20%	50	7.96	33	1.1	300
AIMS1812-6R8 □	6.8	±10%, ±20%	50	7.96	27	1.2	285
AIMS1812-8R2 □	8.2	±5%, ±10%	50	7.96	25	1.4	270
AIMS1812-100 □	10	±5%, ±10%	50	2.52	20	1.6	250
AIMS1812-120 □	12	±5%, ±10%	50	2.52	18	2	225
AIMS1812-150 □	15	±5%, ±10%	50	2.52	17	2.5	200
AIMS1812-180 □	18	±5%, ±10%	50	2.52	15	2.8	190
AIMS1812-220 □	22	±5%, ±10%	50	2.52	13	3.2	180
AIMS1812-270 □	27	±5%, ±10%	50	2.52	12	3.6	170
AIMS1812-330 □	33	±5%, ±10%	50	2.52	11	4	160
AIMS1812-390 □	39	±5%, ±10%	50	2.52	10	4.5	150
AIMS1812-470 □	47	±5%, ±10%	50	2.52	10	5	140
AIMS1812-560 □	56	±5%, ±10%	50	2.52	9	5.5	135
AIMS1812-680 □	68	±5%, ±10%	50	2.52	9	6	130
AIMS1812-820 □	82	±5%, ±10%	50	2.52	8	7	120
AIMS1812-101 □	100	±5%, ±10%	40	0.796	8	8	110
AIMS1812-121 □	120	±5%, ±10%	40	0.796	8	8	110
AIMS1812-151 □	150	±5%, ±10%	40	0.796	5	9	105
AIMS1812-181 □	180	±5%, ±10%	40	0.796	5	9.5	102
AIMS1812-221 □	220	±5%, ±10%	40	0.796	4	10	100
AIMS1812-271 □	270	±5%, ±10%	40	0.796	4	12	92
AIMS1812-331 □	330	±5%, ±10%	40	0.796	3.5	14	85
AIMS1812-391 □	390	±5%, ±10%	40	0.796	3	18	80
AIMS1812-471 □	470	±5%, ±10%	40	0.796	3	26	62
AIMS1812-561 □	560	±5%, ±10%	30	0.796	3	30	50
AIMS1812-681 □	680	±5%, ±10%	30	0.796	3	30	50
AIMS1812-821 □	820	±5%, ±10%	30	0.796	2.5	35	30
AIMS1812-102 □	1000	±5%, ±10%	20	0.252	2.5	40	30

□ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

PHYSICAL CHARACTERISTICS

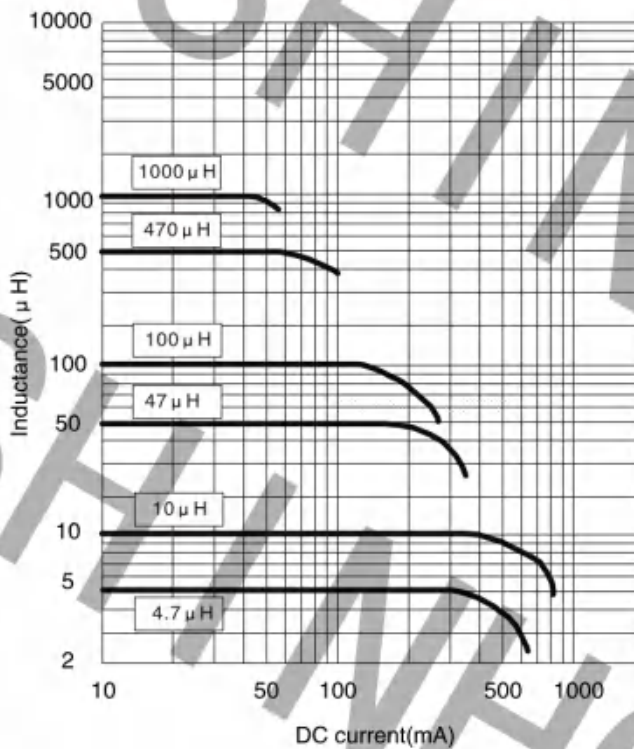


Winding

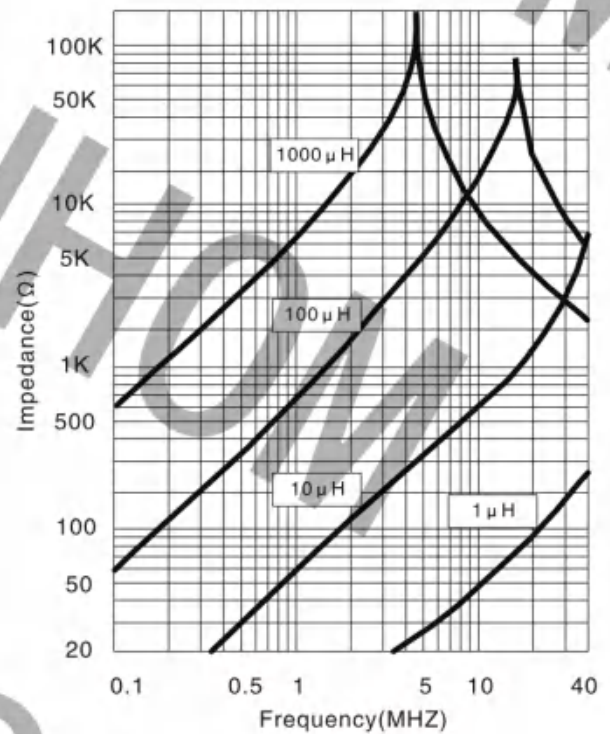


- Testing: (Equivalent acceptable)
Inductance: HP4285A
RDC: QuadTech 1880 Milliohm meter
Q: HP4342A
SRF: HP4291A
- Operating temperature: -25°C to $+85^{\circ}\text{C}$
- Storage Temperature: -40°C to $+85^{\circ}\text{C}$
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE



HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS **AIMS1210C SERIES**



FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

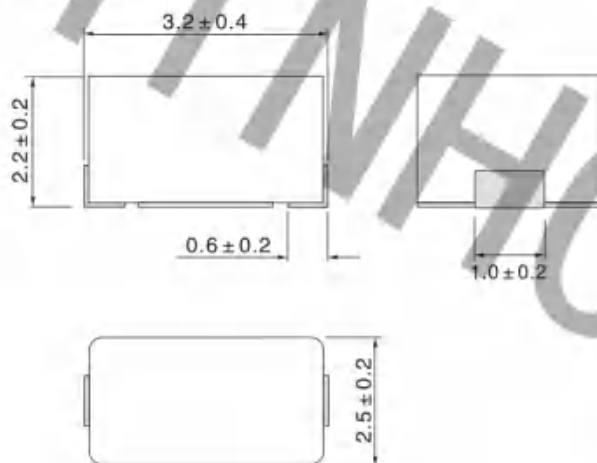
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self-resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AIMS1210C-1R0M	1	± 20%	10	7.96	100	0.156	770
AIMS1210C-1R5M	1.5	± 20%	10	7.96	80	0.195	580
AIMS1210C-2R2M	2.2	± 20%	10	7.96	65	0.260	480
AIMS1210C-3R3M	3.3	± 20%	10	7.96	55	0.325	400
AIMS1210C-4R7M	4.7	± 20%	10	7.96	45	0.520	320
AIMS1210C-6R8M	6.8	± 20%	10	7.96	35	0.650	280
AIMS1210C-100K	10	± 10%	15	2.52	28	1.105	220
AIMS1210C-150K	15	± 10%	15	2.52	25	1.69	180
AIMS1210C-220K	22	± 10%	15	2.52	20	2.60	145
AIMS1210C-330K	33	± 10%	15	2.52	15	3.64	115
AIMS1210C-390K	39	± 10%	15	2.52	14	4.50	110
AIMS1210C-470K	47	± 10%	15	2.52	13	5.46	105
AIMS1210C-680K	68	± 10%	15	2.52	10	8.45	85
AIMS1210C-820K	82	± 10%	15	2.52	9	8.71	80
AIMS1210C-101K	100	± 10%	15	0.796	8	9.14	75

PHYSICAL CHARACTERISTICS

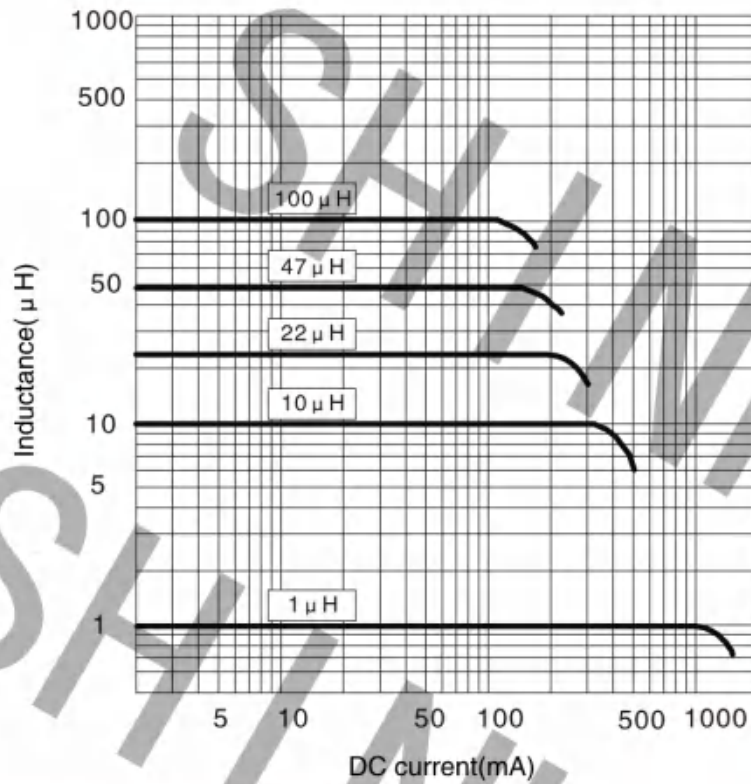


Winding

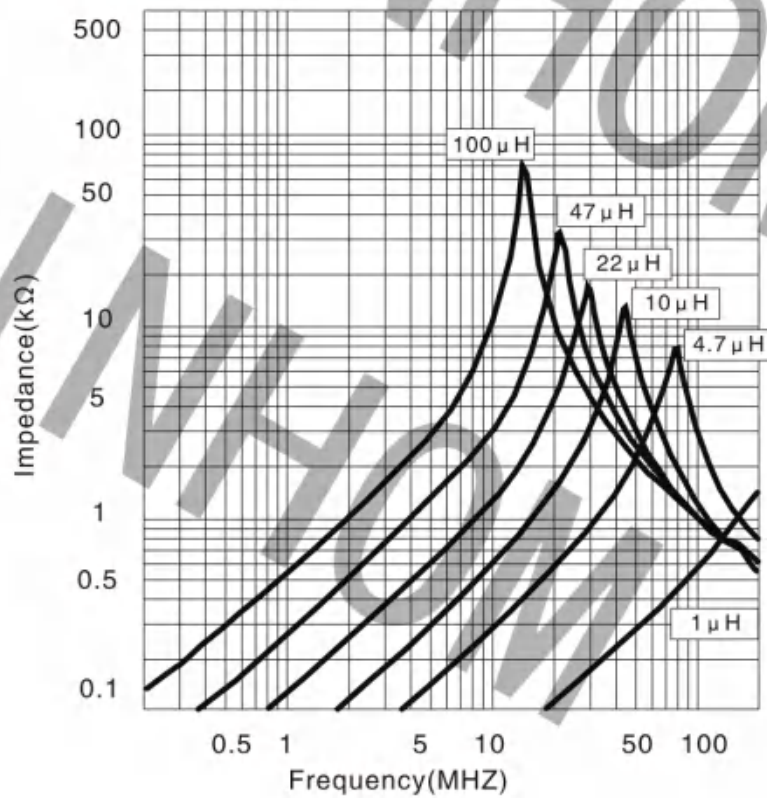


- Testing: (Equivalent acceptable)
- Inductance: HP4285A
- RDC: QuadTech 1880 Milliohmmer
- Q: HP4342A
- SRF: HP4291A
- Operating temperature: -25°C to +85°C
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE



HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AIMS1812C SERIES

FEATURES:

- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals, which realize excellent connection reliability.
- High resistance to heat, humidity, mechanical shocks and presser. Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

APPLICATIONS:

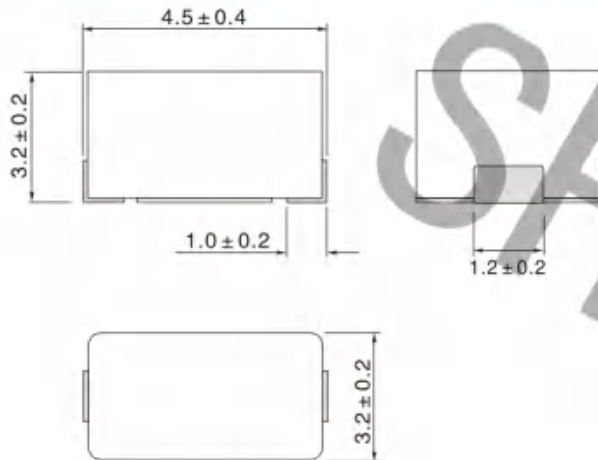
- Communication
- Equipment
- Instrument
- Video & audio



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self-resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AIMS1812C-1R0K	1.0	± 10%	10	7.96	180	0.11	1050
AIMS1812C-1R2K	1.2	± 10%	10	7.96	160	0.12	1000
AIMS1812C-1R5K	1.5	± 10%	10	7.96	130	0.15	950
AIMS1812C-1R8K	1.8	± 10%	10	7.96	100	0.16	900
AIMS1812C-2R2K	2.2	± 10%	10	7.96	80	0.18	850
AIMS1812C-2R7K	2.7	± 10%	10	7.96	60	0.20	800
AIMS1812C-3R3K	3.3	± 10%	10	7.96	45	0.22	750
AIMS1812C-3R9K	3.9	± 10%	10	7.96	40	0.24	700
AIMS1812C-4R7K	4.7	± 10%	10	7.96	35	0.27	650
AIMS1812C-5R6K	5.6	± 10%	10	7.96	30	0.30	650
AIMS1812C-6R8K	6.8	± 10%	10	7.96	28	0.35	600
AIMS1812C-8R2K	8.2	± 10%	10	7.96	25	0.40	600
AIMS1812C-100K	10	± 10%	10	2.52	22	0.50	550
AIMS1812C-120K	12	± 10%	10	2.52	21	0.60	500
AIMS1812C-150K	15	± 10%	10	2.52	20	0.70	450
AIMS1812C-180K	18	± 10%	10	2.52	19	0.80	400
AIMS1812C-220K	22	± 10%	10	2.52	18	0.9	370
AIMS1812C-270K	27	± 10%	10	2.52	16	1.2	330
AIMS1812C-330K	33	± 10%	10	2.52	14	1.4	300
AIMS1812C-390K	39	± 10%	10	2.52	12	1.6	280
AIMS1812C-470K	47	± 10%	10	2.52	11.5	1.9	260
AIMS1812C-560K	56	± 10%	10	2.52	11	2.2	240
AIMS1812C-680K	68	± 10%	10	2.52	10	2.6	220
AIMS1812C-820K	82	± 10%	10	2.52	9	3.5	200
AIMS1812C-101K	100	± 10%	20	0.796	8	4.0	180
AIMS1812C-121K	120	± 10%	20	0.796	7.5	4.5	160
AIMS1812C-151K	150	± 10%	20	0.796	7	6.5	140
AIMS1812C-181K	180	± 10%	20	0.796	6.5	7.5	120
AIMS1812C-221K	220	± 10%	20	0.796	5.5	9.0	120
AIMS1812C-271K	270	± 10%	20	0.796	5	11	100
AIMS1812C-331K	330	± 10%	20	0.796	4	13	90

PHYSICAL CHARACTERISTICS

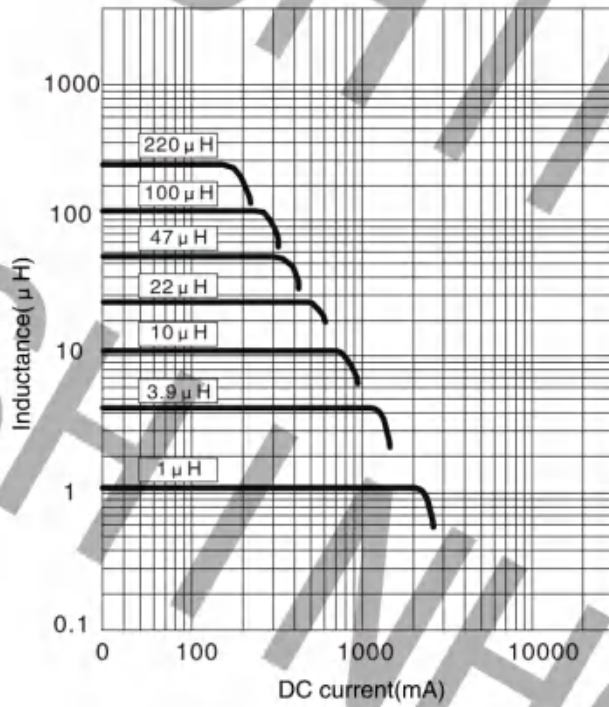


Winding



- Testing: (Equivalent acceptable)
Inductance: HP4285A
RDC: QuadTech 1880 Milliohmeter
Q: HP4342A
SRF: HP4291A
- Operating temperature: -25°C to $+85^{\circ}\text{C}$
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DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE

