SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0201C SERIES



FEATURES:

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

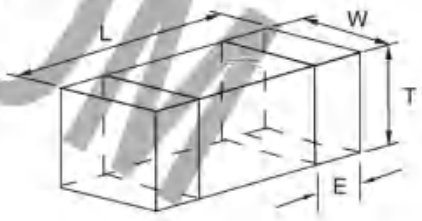
Part Number	L(nH) ±10%	Q Min	L,Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0201C-0N6C	0.6 ± 0.2	13	500	10000	0.06	600
AIML0201C-0N7C	0.7 ± 0.2	13	500	10000	0.06	550
AIML0201C-0N8C	0.8 ± 0.2	13	500	10000	0.07	550
AIML0201C-1N0S	1.0 ± 0.3	13	500	10000	0.08	520
AIML0201C-1N1S	1.1 ± 0.3	13	500	10000	0.11	440
AIML0201C-1N2S	1.2 ± 0.3	13	500	10000	0.12	440
AIML0201C-1N4S	1.4 ± 0.3	13	500	10000	0.12	430
AIML0201C-1N5S	1.5 ± 0.3	13	500	10000	0.12	420
AIML0201C-1N6S	1.6 ± 0.3	13	500	10000	0.13	410
AIML0201C-1N8S	1.8 ± 0.3	13	500	10000	0.15	380
AIML0201C-2N0S	2.0 ± 0.3	13	500	10000	0.20	360
AIML0201C-2N2S	2.2 ± 0.3	13	500	10000	0.20	350
AIML0201C-2N4S	2.4 ± 0.3	13	500	10000	0.22	330
AIML0201C-2N6S	2.6 ± 0.3	13	500	9400	0.22	320
AIML0201C-2N7S	2.7 ± 0.3	13	500	9200	0.23	300
AIML0201C-3N0S	3.0 ± 0.3	13	500	8600	0.26	280
AIML0201C-3N3S	3.3 ± 0.3	13	500	8100	0.30	270
AIML0201C-3N6S	3.6 ± 0.3	13	500	7700	0.38	240
AIML0201C-3N9S	3.9 ± 0.3	13	500	7400	0.42	230
AIML0201C-4N3S	4.3 ± 0.3	13	500	6800	0.44	220
AIML0201C-4N7S	4.7 ± 0.3	13	500	6200	0.45	220
AIML0201C-5N1S	5.1 ± 0.3	13	500	5900	0.46	210
AIML0201C-5N6S	5.6 ± 0.3	13	500	5500	0.46	210
AIML0201C-6N2S	6.2 ± 0.3	13	500	5100	0.48	210
AIML0201C-6N8J	6.8 ± 5%	13	500	4900	0.50	200
AIML0201C-7N5J	7.5 ± 5%	13	500	4700	0.50	200
AIML0201C-8N2J	8.2 ± 5%	13	500	4300	0.56	190
AIML0201C-9N1J	9.1 ± 5%	13	500	4100	0.72	170
AIML0201C-10NJ	10 ± 5%	13	500	3800	0.80	160
AIML0201C-12NJ	12 ± 5%	13	500	3400	0.80	160
AIML0201C-15NJ	15 ± 5%	13	500	2600	0.85	160
AIML0201C-18NJ	18 ± 5%	13	500	2300	1.00	140
AIML0201C-22NJ	22 ± 5%	13	500	1900	1.20	130
AIML0201C-27NJ	27 ± 5%	13	500	1600	1.60	120
AIML0201C-33NJ	33 ± 5%	13	300	1800	2.20	110
AIML0201C-39NJ	39 ± 5%	11	300	1600	2.30	100
AIML0201C-47NJ	47 ± 5%	11	300	1500	2.60	100
AIML0201C-56NJ	56 ± 5%	11	300	1400	2.80	80
AIML0201C-68NJ	68 ± 5%	11	300	1200	3.20	80
AIML0201C-82NJ	82 ± 5%	10	300	1100	3.80	70
AIML0201C-R10J	100 ± 5%	10	300	1000	4.00	60
AIML0201C-R12J	120 ± 5%	9	300	1000	5.00	50

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8720C
- Solderability:90% of the terminal
  Electrode shall be covered
  Preheat: @ 260℃ ± 5℃ for 160 seconds
  Solder:H63AA Eutectic Solder
  Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
  Within ± 5% of imitial value
  and Q shall be within ± 30% of initial value
  When temperaturs is -40℃ and +85℃ for 30
  Min.for each 100 cycles
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -40℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	0.6 ± 0.03
W	0.3 ± 0.03
T	0.3 ± 0.03
E	0.15 ± 0.05

SHINHOM

SMD Ceramic multilayer chip inductors

AIML0201CA Seires



0201CA Series supports miniaturized devices. Its low inductance, high precision and high Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

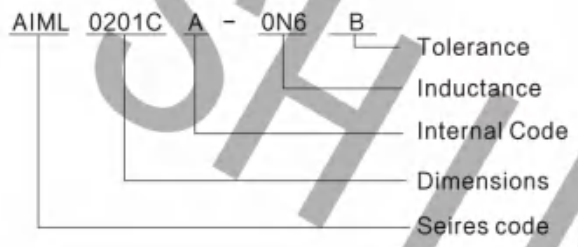
Features

- Excellent high frequency application
- High Q factor and SRF value
- Miniaturization
- Tight tolerance
- Wide inductance range

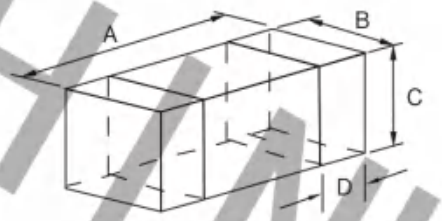
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

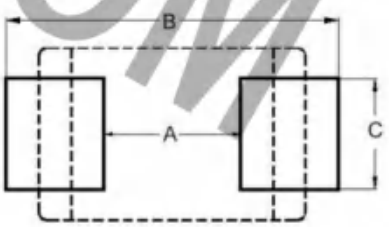
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0201C	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05

Dimensions in mm

TYPE	A	B	C
AIML0201C	0.3	0.75 ~ 1.05	0.3

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Electrical Characteristics

Part Number AIML0201CA-	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
0N6□	0.6	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N7□	0.7	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N8□	0.8	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N9□	0.9	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
1N0□	1.0	±0.1nH/±0.2nH/±0.3nH	14	500	23	32	54	57	65	10000	0.07	850
1N1□	1.1	±0.1nH/±0.2nH/±0.3nH	14	500	22	26	45	47	55	10000	0.07	850
1N2□	1.2	±0.1nH/±0.2nH/±0.3nH	14	500	22	25	43	44	52	10000	0.08	800
1N3□	1.3	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	40	42	47	10000	0.09	760
1N4□	1.4	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	339	41	47	10000	0.12	640
1N5□	1.5	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.15	600
1N6□	1.6	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.19	510
1N7□	1.7	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.11	680
1N8□	1.8	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.12	640
1N9□	1.9	±0.1nH/±0.2nH/±0.3nH	14	500	18	24	38	40	45	10000	0.13	620
2N0□	2.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	39	44	10000	0.15	600
2N1□	2.1	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	44	10000	0.16	550
2N2□	2.2	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	40	43	10000	0.20	500
2N3□	2.3	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	43	10000	0.24	460
2N4□	2.4	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	36	38	42	10000	0.26	430
2N5□	2.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	35	36	40	10000	0.28	415
2N6□	2.6	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.30	405
2N7□	2.7	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.32	400
2N8□	2.8	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9500	0.20	500
2N9□	2.9	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9300	0.22	480
3N0□	3.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9100	0.24	460
3N1□	3.1	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	8900	0.25	450
3N2□	3.2	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	33	35	39	8700	0.28	415
3N3□	3.3	±0.1nH/±0.2nH/±0.3nH	14	500	18	23	34	36	40	8600	0.28	415
3N4□	3.4	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8400	0.29	410
3N5□	3.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8200	0.30	405
3N6□	3.6	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	39	8100	0.32	400
3N7□	3.7	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	38	8000	0.36	370
3N8□	3.8	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7800	0.40	355
3N9□	3.9	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7700	0.41	350

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.48nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

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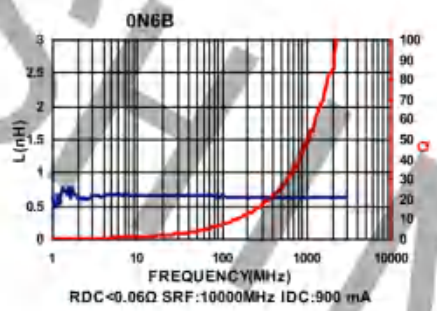
Electrical Characteristics

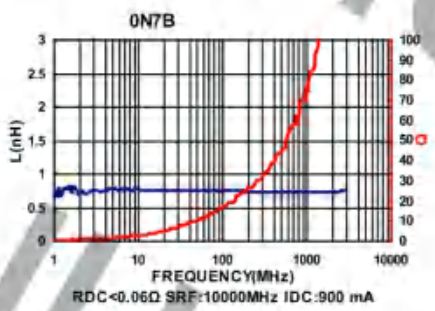
Part Number AIML0201CA-	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
4N3□	4.3	±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
4N7□	4.7	±0.2nH/±0.3nH	14	500	16	22	33	35	38	6400	0.42	350
5N1□	5.1	±0.2nH/±0.3nH	14	500	17	22	34	36	38	6100	0.45	330
5N6□	5.6	±0.2nH/±0.3nH	14	500	16	21	33	34	37	5500	0.47	325
6N2□	6.2	±0.2nH/±0.3nH	14	500	18	23	34	35	37	5100	0.52	305
6N8□	6.8	3 / 5	14	500	17	22	32	33	35	4800	0.55	305
7N5□	7.5	3 / 5	14	500	16	21	31	33	34	4600	0.55	305
8N2□	8.2	3 / 5	14	500	16	21	31	32	34	4300	0.57	290
9N1□	9.1	3 / 5	14	500	16	20	30	31	32	4000	0.65	270
10N□	10	3 / 5	14	500	16	20	28	29	31	3800	0.85	230
12N□	12	3 / 5	14	500	16	20	27	28	28	3300	0.85	230
15N□	15	3 / 5	14	500	15	19	24	24	23	2600	0.89	220
18N□	18	3 / 5	14	500	15	19	23	24	22	2300	1.05	205
22N□	22	3 / 5	14	500	15	19	22	23	20	1900	1.29	190

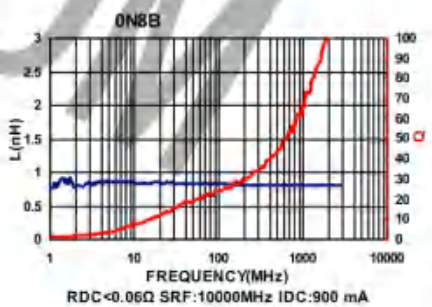
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

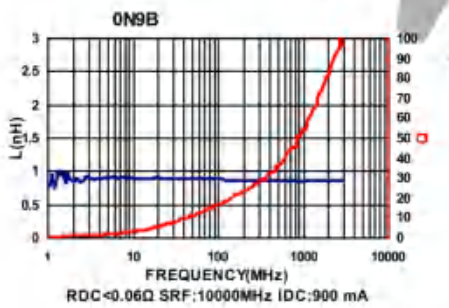
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.48nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

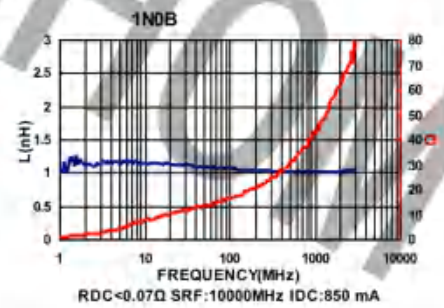
Test Instruments：Agilent E4991A Material/Impedance Analyzer

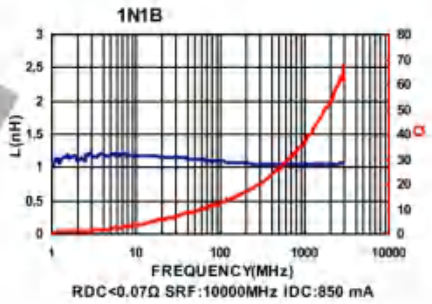








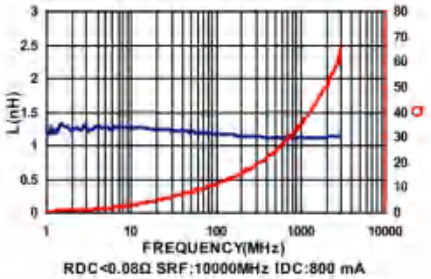




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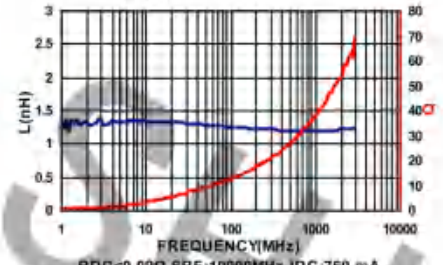
Test Instruments：Agilent E4991A Material/Impedance Analyzer

1N2B



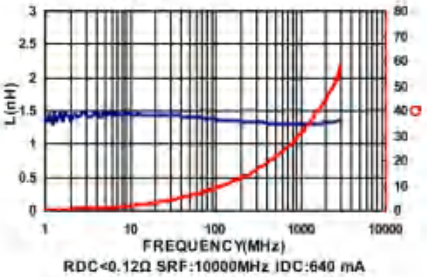
RDC<0.08Ω SRF:10000MHz IDC:800 mA

1N3B



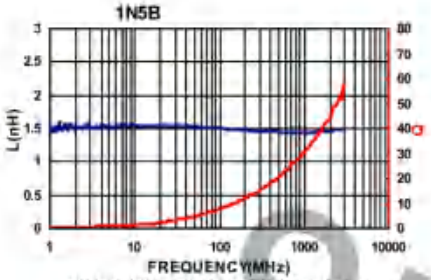
RDC<0.09Ω SRF:10000MHz IDC:760 mA

1N4B



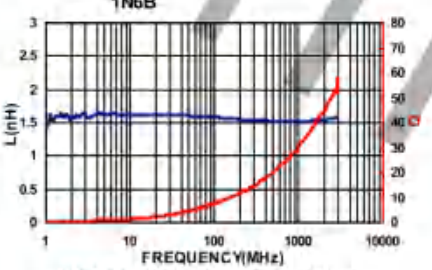
RDC<0.12Ω SRF:10000MHz IDC:640 mA

1N5B



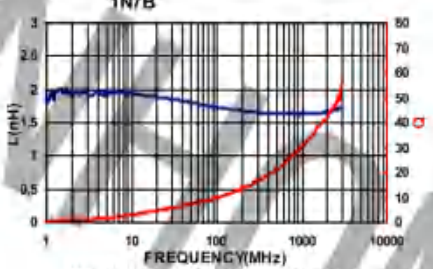
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1N6B



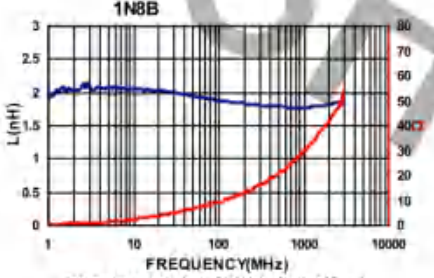
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1N7B



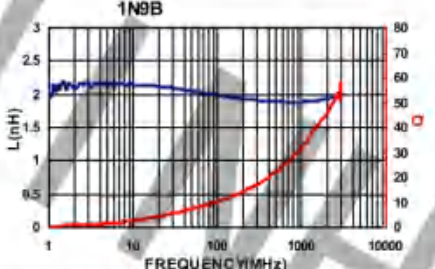
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1N8B



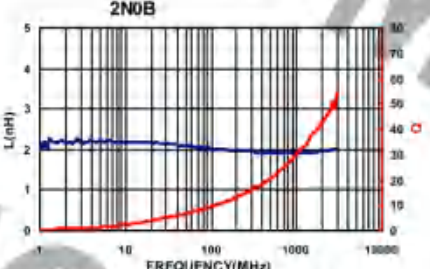
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1N9B



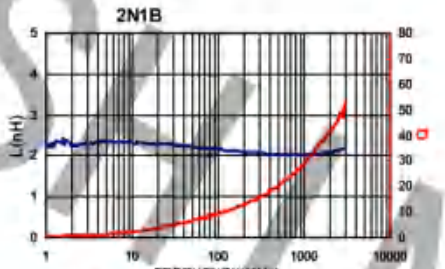
RDC<0.13Ω SRF:10000MHz IDC:620 mA

2N0B



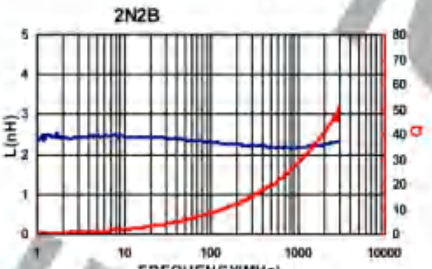
RDC<0.15Ω SRF:10000MHz IDC:600 mA

2N1B



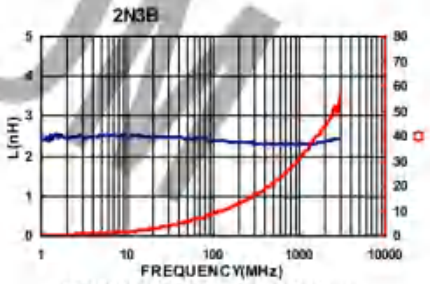
RDC<0.16Ω SRF:10000MHz IDC:550 mA

2N2B



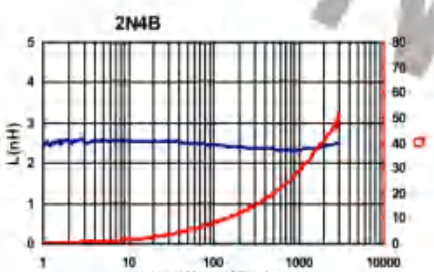
RDC<0.2Ω SRF:10000MHz IDC:500 mA

2N3B



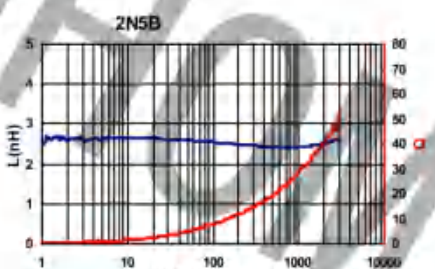
RDC<0.24Ω SRF:10000MHz IDC:460 mA

2N4B



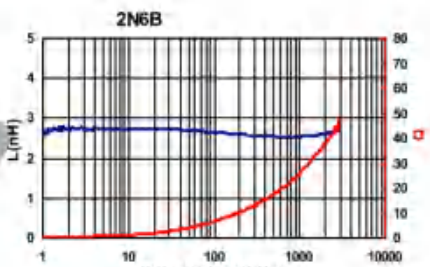
RDC<0.26Ω SRF:10000MHz IDC:430 mA

2N5B



RDC<0.28Ω SRF:10000MHz IDC:415 mA

2N6B

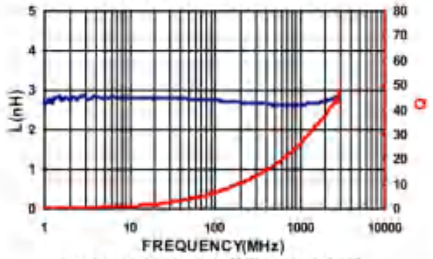


RDC<0.3Ω SRF:10000MHz IDC:405 mA

SHINHOM

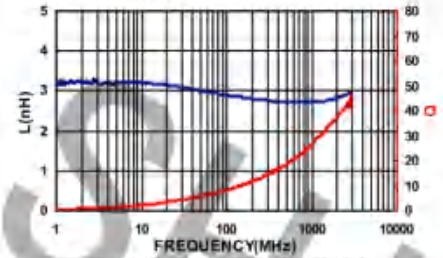
Test Instruments：Agilent E4991A Material/Impedance Analyzer

2N7B



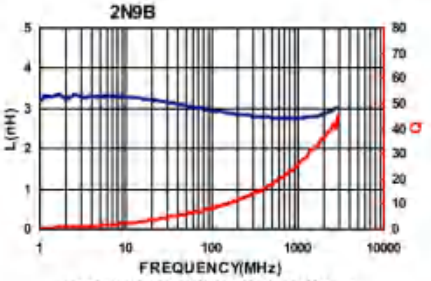
RDC<0.32Ω SRF:10000MHz IDC:400 mA

2N8B



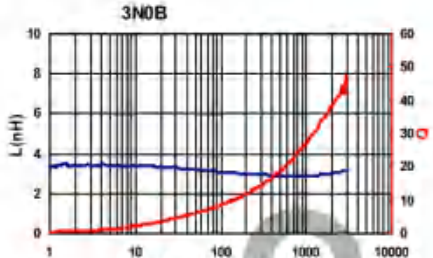
RDC<0.2Ω SRF:9500MHz IDC:500 mA

2N9B



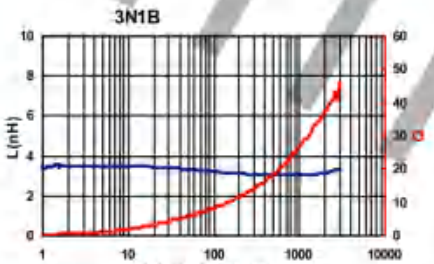
RDC<0.22Ω SRF:9300MHz IDC:480 mA

3N0B



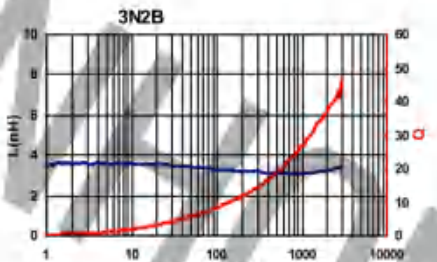
RDC<0.24Ω SRF:9100MHz IDC:460 mA

3N1B



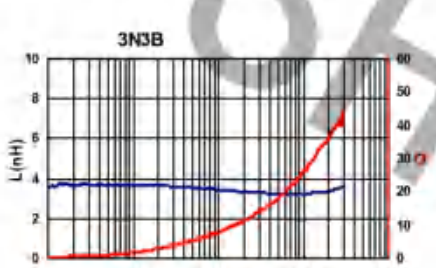
RDC<0.25Ω SRF:8900MHz IDC:450 mA

3N2B



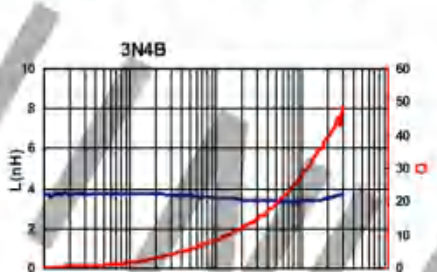
RDC<0.28Ω SRF:8700MHz IDC:415 mA

3N3B



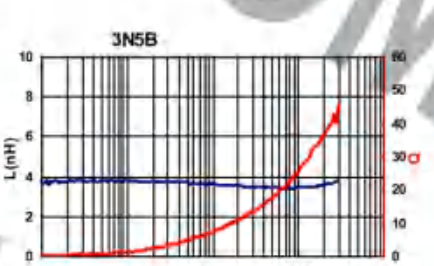
RDC<0.28Ω SRF:8600MHz IDC:415 mA

3N4B



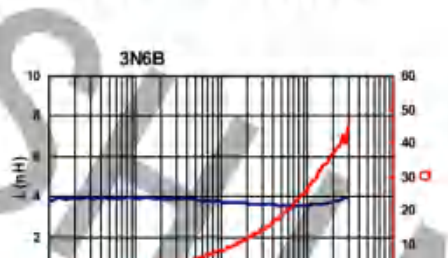
RDC<0.29Ω SRF:8400MHz IDC:410 mA

3N5B



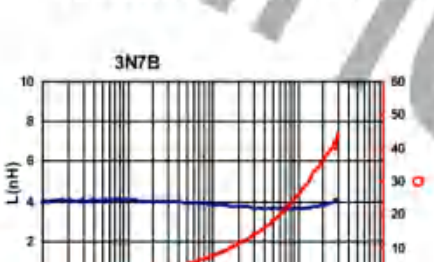
RDC<0.3Ω SRF:8200MHz IDC:405 mA

3N6B



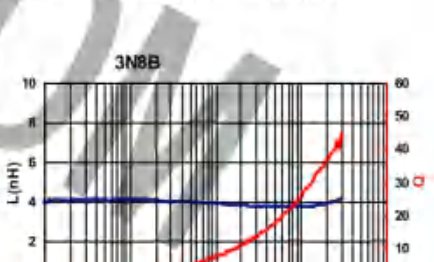
RDC<0.32Ω SRF:8100MHz IDC:400 mA

3N7B



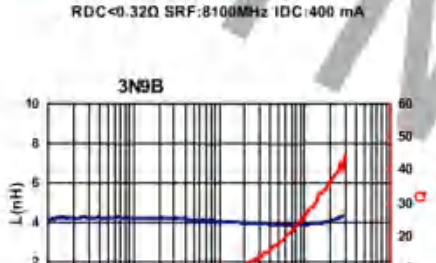
RDC<0.36Ω SRF:8000MHz IDC:370 mA

3N8B



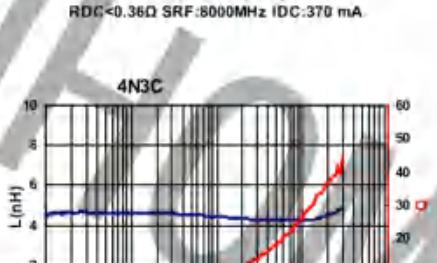
RDC<0.4Ω SRF:7800MHz IDC:355 mA

3N9B



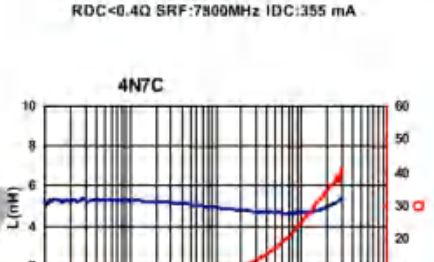
RDC<0.41Ω SRF:7700MHz IDC:350 mA

4N3C



RDC<0.48Ω SRF:6500MHz IDC:320 mA

4N7C

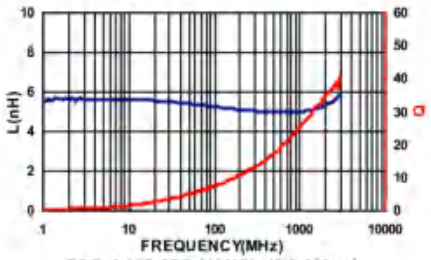


RDC<0.42Ω SRF:6400MHz IDC:350 mA

SHINHOM

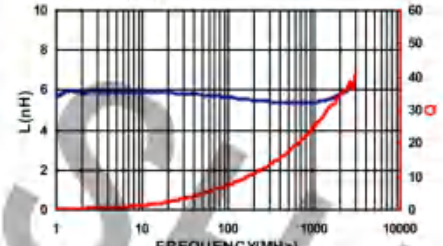
Test Instruments：Agilent E4991A Material/Impedance Analyzer

5N1C



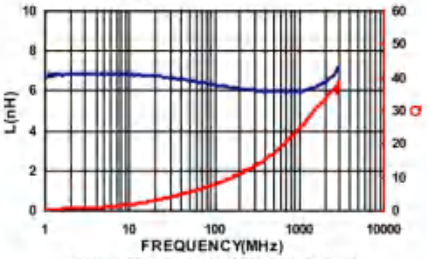
RDC<0.45Ω SRF:6100MHz IDC:330 mA

5N6C



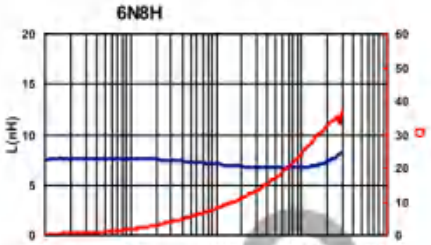
RDC<0.47Ω SRF:5500MHz IDC:325 mA

6N2C



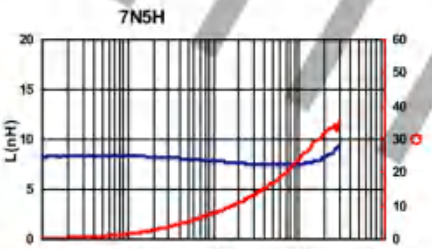
RDC<0.52Ω SRF:5100MHz IDC:305 mA

6N8H



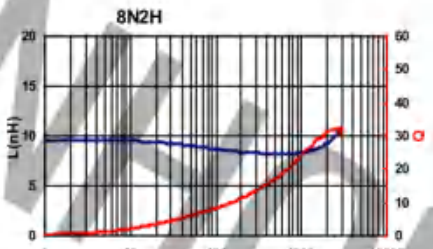
RDC<0.55Ω SRF:4600MHz IDC:305 mA

7N5H



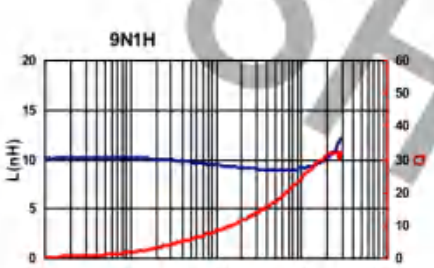
RDC<0.55Ω SRF:4600MHz IDC:305 mA

8N2H



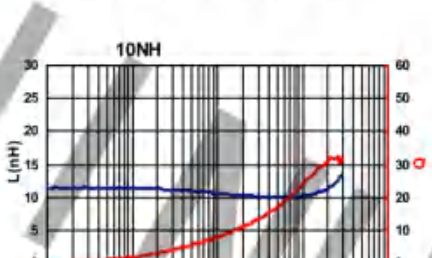
RDC<0.57Ω SRF:4300MHz IDC:290 mA

9N1H



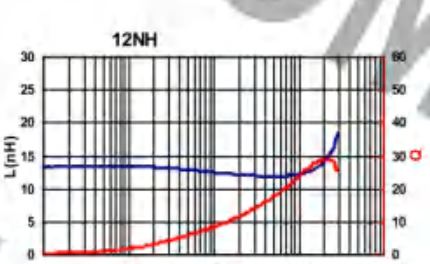
RDC<0.65Ω SRF:4000MHz IDC:270 mA

10NH



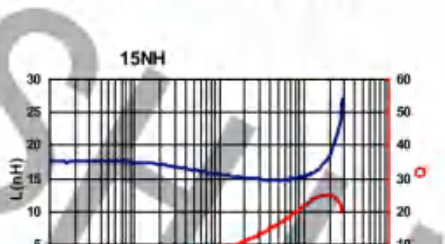
RDC<0.85Ω SRF:3800MHz IDC:230 mA

12NH



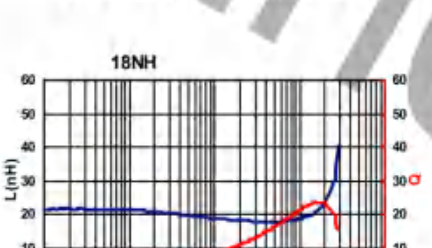
RDC<0.85Ω SRF:3300MHz IDC:230 mA

15NH



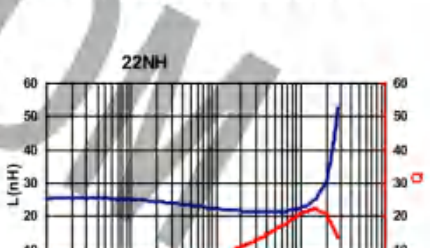
RDC<0.89Ω SRF:2600MHz IDC:220 mA

18NH



RDC<1.05Ω SRF:2300MHz IDC:205 mA

22NH



RDC<1.29Ω SRF:1900MHz IDC:190 mA

SHINHOM

SMD Ceramic multilayer chip inductors

AIML0201CB Seires



0201CB Series supports miniaturized devices. Its low inductance, high precision and high Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

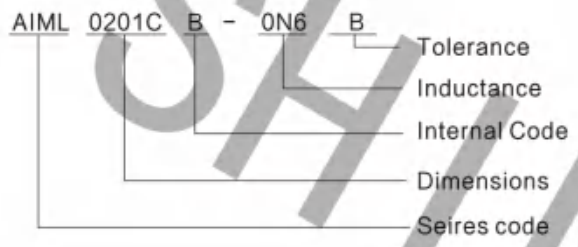
Features

- Excellent high frequency application
- High Q factor and SRF value
- Miniaturization
- Tight tolerance
- Wide inductance range

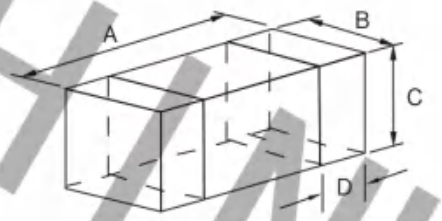
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

Product Identification



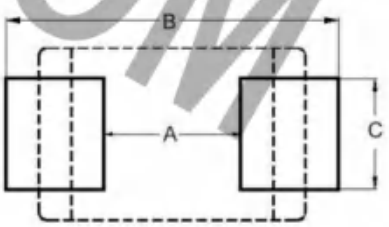
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
AIML0201C	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
AIML0201C	0.3	0.75 ~ 1.05	0.3

SHINHOM SHINHOM SHINHOM

Electrical Characteristics

Part Number AIML0201CB-	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
0N1□	0.1	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N2□	0.2	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N3□	0.3	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N4□	0.4	±0.1nH/±0.2nH/±0.3nH	14	500	>24	>32	>54	>57	>65	10000	0.06	900
0N5□	0.5	±0.1nH/±0.2nH/±0.3nH	14	500	23	32	54	57	65	10000	0.07	850
0N6□	0.6	±0.1nH/±0.2nH/±0.3nH	14	500	22	26	45	47	55	10000	0.07	850
0N7□	0.7	±0.1nH/±0.2nH/±0.3nH	14	500	22	25	43	44	52	10000	0.08	800
0N8□	0.8	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	40	42	47	10000	0.09	760
0N9□	0.9	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	339	41	47	10000	0.12	640
1N0□	1.0	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.15	600
1N1□	1.1	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.19	510
1N2□	1.2	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.11	680
1N3□	1.3	±0.1nH/±0.2nH/±0.3nH	14	500	19	24	39	41	46	10000	0.12	640
1N4□	1.4	±0.1nH/±0.2nH/±0.3nH	14	500	18	24	38	40	45	10000	0.13	620
1N5□	1.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	39	44	10000	0.15	600
1N6□	1.6	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	44	10000	0.16	550
1N7□	1.7	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	38	40	43	10000	0.20	500
1N8□	1.8	±0.1nH/±0.2nH/±0.3nH	14	500	17	24	37	39	43	10000	0.24	460
1N9□	1.9	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	36	38	42	10000	0.26	430
2N0□	2.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	35	36	40	10000	0.28	415
2N1□	2.1	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.30	405
2N2□	2.2	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	10000	0.32	400
2N3□	2.3	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9500	0.20	500
2N4□	2.4	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9300	0.22	480
2N5□	2.5	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	9100	0.24	460
2N6□	2.6	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	34	35	39	8900	0.25	450
2N7□	2.7	±0.1nH/±0.2nH/±0.3nH	14	500	17	22	33	35	39	8700	0.28	415
2N8□	2.8	±0.1nH/±0.2nH/±0.3nH	14	500	18	23	34	36	40	8600	0.28	415
2N9□	2.9	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8400	0.29	410
3N0□	3.0	±0.1nH/±0.2nH/±0.3nH	14	500	17	23	33	35	39	8200	0.30	405
3N1□	3.1	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	39	8100	0.32	400
3N2□	3.2	±0.1nH/±0.2nH/±0.3nH	14	500	16	23	33	35	38	8000	0.36	370

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

SHINHOM

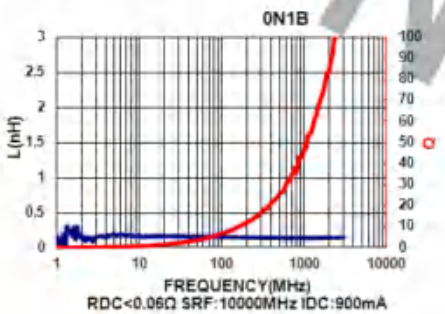
Electrical Characteristics

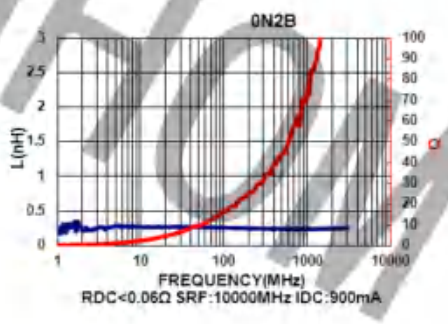
Part Number AIML0201CB-	Inductance (nH)	Tolerance (±%)	Q Min	Test Freq. (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
3N3□	3.3	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7800	0.40	355
3N4□	3.4	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7700	0.41	350
3N5□	3.5	±0.1nH/±0.2nH/±0.3nH	14	500	16	22	33	35	38	7700	0.41	350
3N6□	3.6	±0.1nH/±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
3N7□	3.7	±0.1nH/±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
3N8□	3.8	±0.1nH/±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
3N9□	3.9	±0.1nH/±0.2nH/±0.3nH	14	500	16	21	32	34	37	6500	0.48	320
4N3□	4.3	±0.2nH/±0.3nH	14	500	16	22	33	35	38	6400	0.42	350
4N7□	4.7	±0.2nH/±0.3nH	14	500	17	22	34	36	38	6100	0.45	330
5N1□	5.1	±0.2nH/±0.3nH	14	500	16	21	33	34	37	5500	0.47	325
5N6□	5.6	±0.2nH/±0.3nH	14	500	18	23	34	35	37	5100	0.52	305
6N2□	6.2	±0.2nH/±0.3nH	14	500	17	22	32	33	35	4800	0.55	305
6N8□	6.8	3 / 5	14	500	16	21	31	33	34	4600	0.55	305
7N5□	7.5	3 / 5	14	500	16	21	31	32	34	4300	0.57	290
8N2□	8.2	3 / 5	14	500	16	20	30	31	32	4000	0.65	270
9N1□	9.1	3 / 5	14	500	16	20	28	29	31	3800	0.85	230
10N□	10	3 / 5	14	500	16	20	28	29	31	3800	0.85	230
12N□	12	3 / 5	14	500	16	20	27	28	28	3300	0.85	230
15N□	15	3 / 5	14	500	15	19	24	24	23	2600	0.89	220
18N□	18	3 / 5	14	500	15	19	23	24	22	2300	1.05	205
22N□	22	3 / 5	14	500	15	19	22	23	20	1900	1.29	190

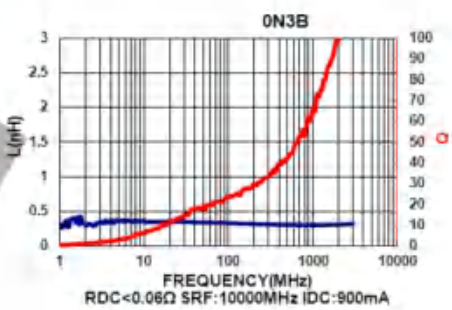
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH , H=±3% , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

Test Instruments： Agilent E4991A Material/Impedance Analyzer



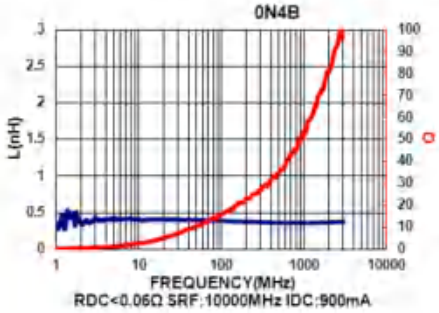




SHINHOM

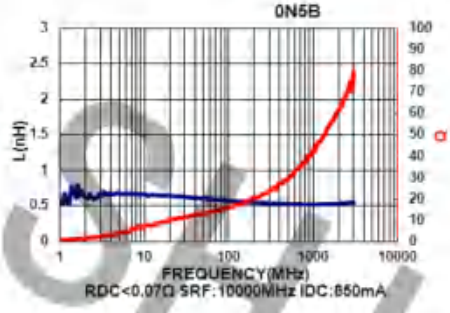
Test Instruments：Agilent E4991A Material/Impedance Analyzer

0N4B



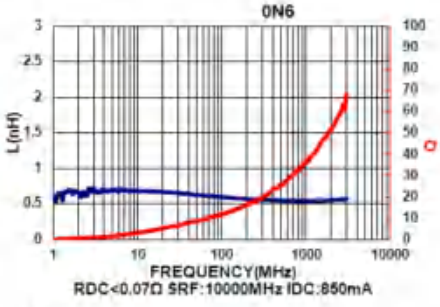
RDC<0.06Ω SRF:10000MHz IDC:900mA

0N5B



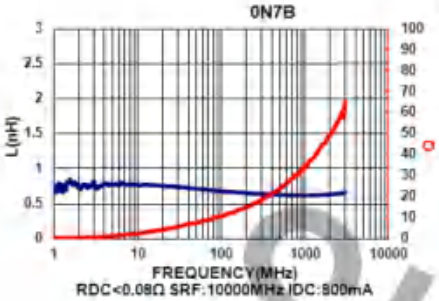
RDC<0.07Ω SRF:10000MHz IDC:850mA

0N6



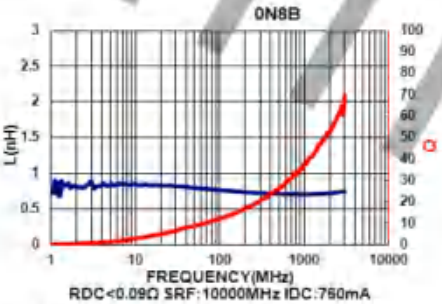
RDC<0.07Ω SRF:10000MHz IDC:850mA

0N7B



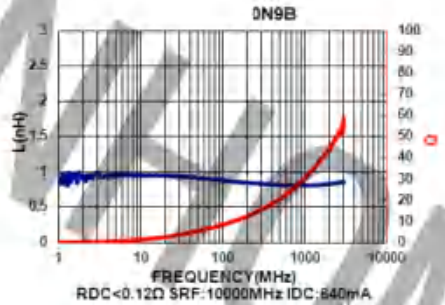
RDC<0.08Ω SRF:10000MHz IDC:800mA

0N8B



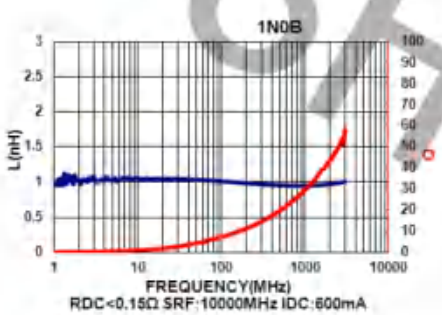
RDC<0.09Ω SRF:10000MHz IDC:760mA

0N9B



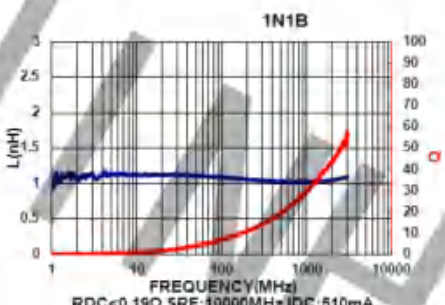
RDC<0.12Ω SRF:10000MHz IDC:640mA

1N0B



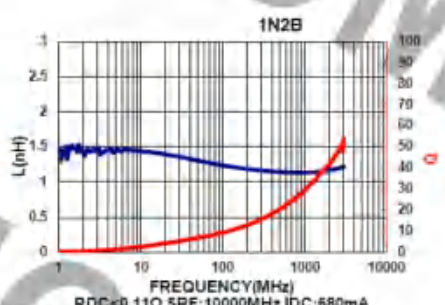
RDC<0.15Ω SRF:10000MHz IDC:600mA

1N1B



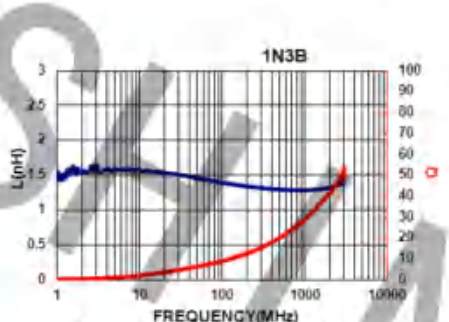
RDC<0.19Ω SRF:10000MHz IDC:510mA

1N2B



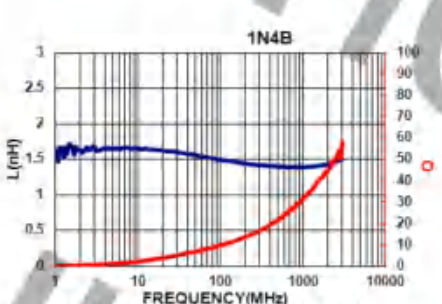
RDC<0.11Ω SRF:10000MHz IDC:680mA

1N3B



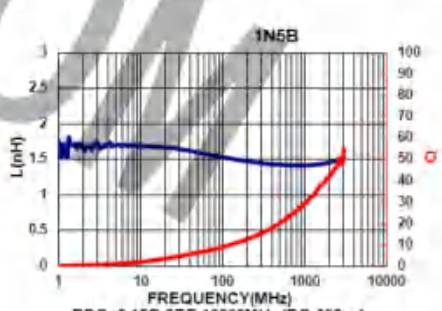
RDC<0.12Ω SRF:10000MHz IDC:640mA

1N4B



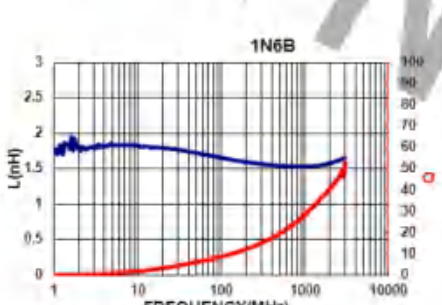
RDC<0.13Ω SRF:10000MHz IDC:620mA

1N5B



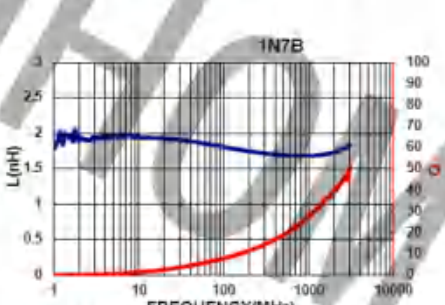
RDC<0.15Ω SRF:10000MHz IDC:600mA

1N6B



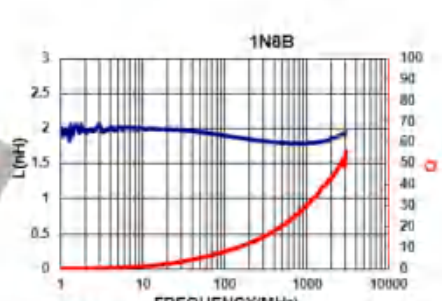
RDC<0.16Ω SRF:10000MHz IDC:550mA

1N7B



RDC<0.2Ω SRF:10000MHz IDC:500mA

1N8B

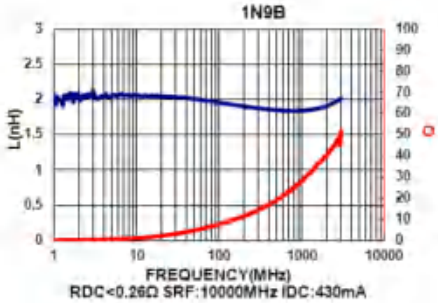


RDC<0.24Ω SRF:10000MHz IDC:460mA

SHINHOM

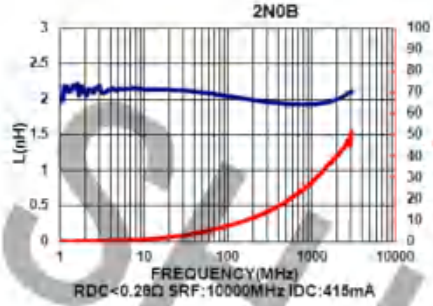
Test Instruments：Agilent E4991A Material/Impedance Analyzer

1N9B



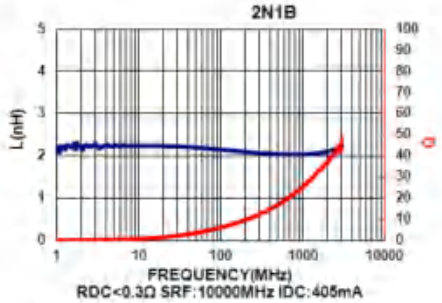
RDC<0.26Ω SRF:10000MHz IDC:430mA

2N0B



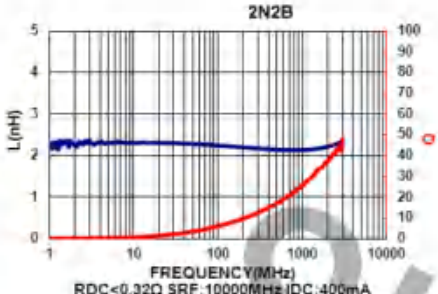
RDC<0.26Ω SRF:10000MHz IDC:415mA

2N1B



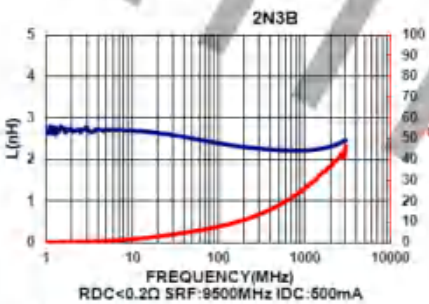
RDC<0.3Ω SRF:10000MHz IDC:405mA

2N2B



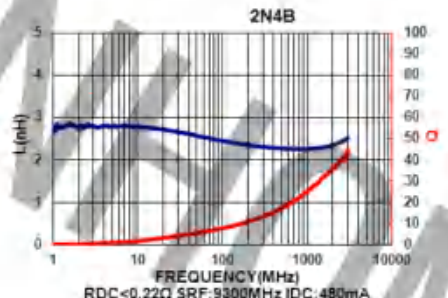
RDC<0.32Ω SRF:10000MHz IDC:400mA

2N3B



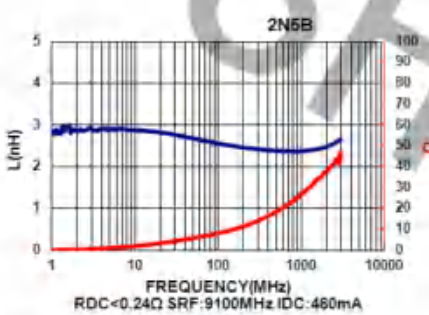
RDC<0.2Ω SRF:9500MHz IDC:500mA

2N4B



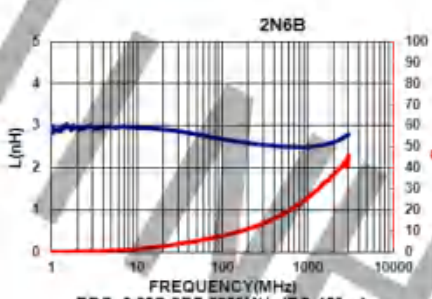
RDC<0.22Ω SRF:9300MHz IDC:480mA

2N5B



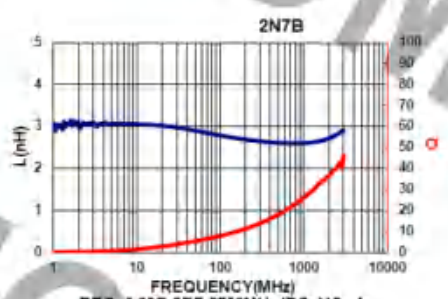
RDC<0.24Ω SRF:9100MHz IDC:460mA

2N6B



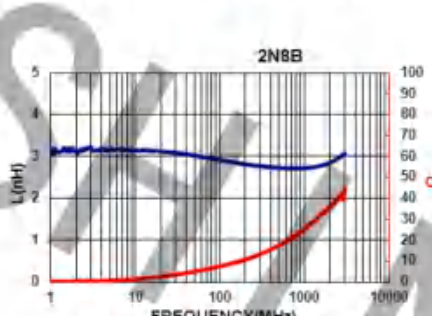
RDC<0.25Ω SRF:8900MHz IDC:450mA

2N7B



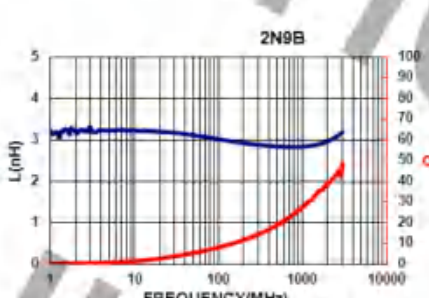
RDC<0.28Ω SRF:8700MHz IDC:415mA

2N8B



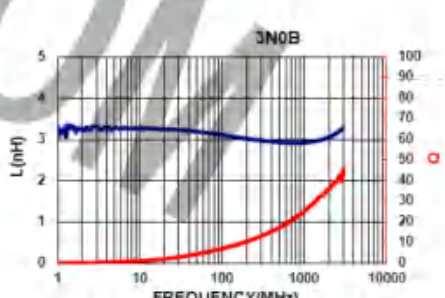
RDC<0.28Ω SRF:8600MHz IDC:415mA

2N9B



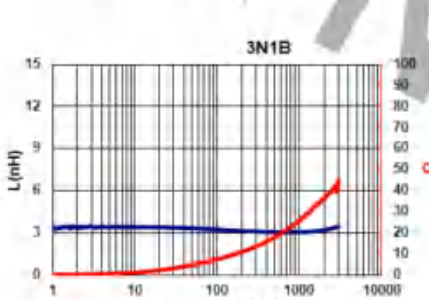
RDC<0.29Ω SRF:8400MHz IDC:410mA

3N0B



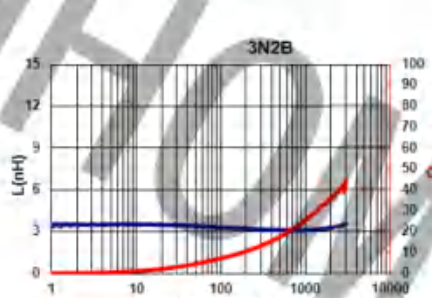
RDC<0.3Ω SRF:8200MHz IDC:405mA

3N1B



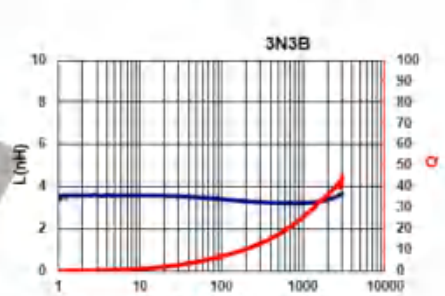
RDC<0.32Ω SRF:8100MHz IDC:400mA

3N2B



RDC<0.36Ω SRF:8000MHz IDC:370mA

3N3B

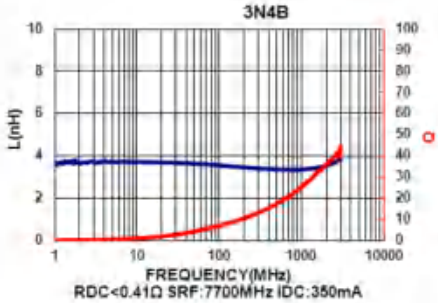


RDC<0.4Ω SRF:7800MHz IDC:355mA

SHINHOM

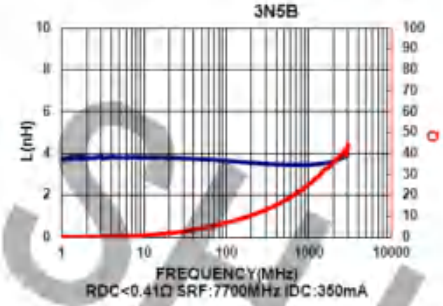
Test Instruments：Agilent E4991A Material/Impedance Analyzer

3N4B



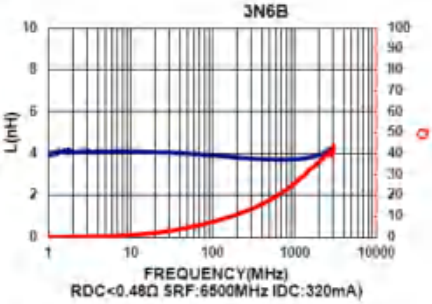
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3N5B



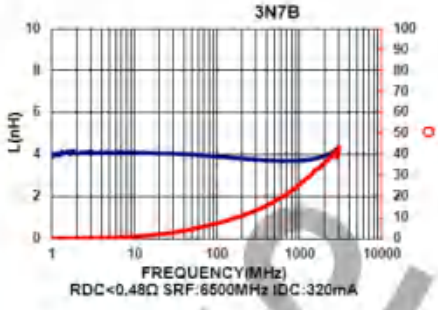
RDC<0.41Ω SRF:7700MHz IDC:350mA

3N6B



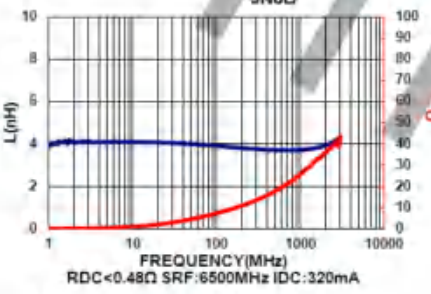
RDC<0.48Ω SRF:6500MHz IDC:320mA)

3N7B



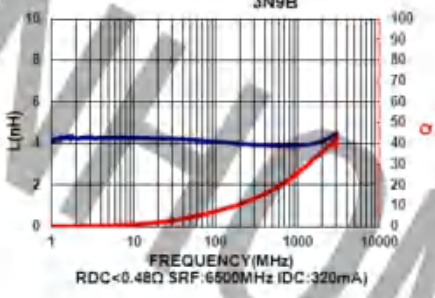
RDC<0.48Ω SRF:6500MHz IDC:320mA

3N8B



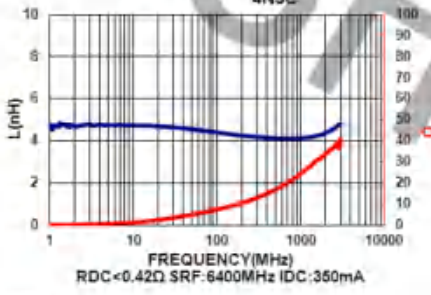
RDC<0.48Ω SRF:6500MHz IDC:320mA

3N9B



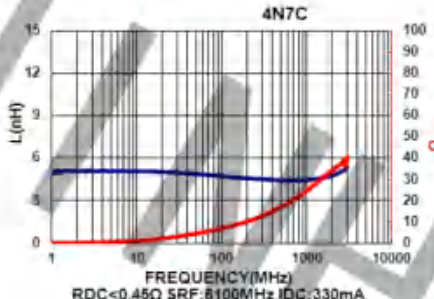
RDC<0.48Ω SRF:6500MHz IDC:320mA)

4N3C



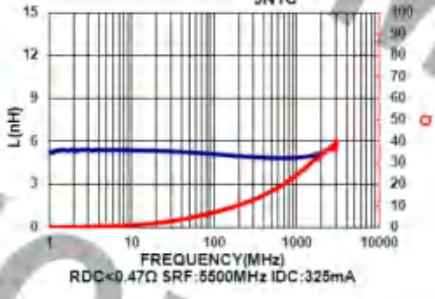
RDC<0.42Ω SRF:6400MHz IDC:350mA

4N7C



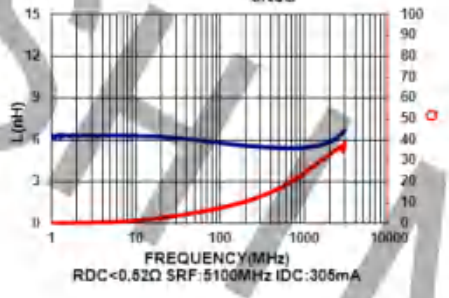
RDC<0.45Ω SRF:6100MHz IDC:330mA

5N1C



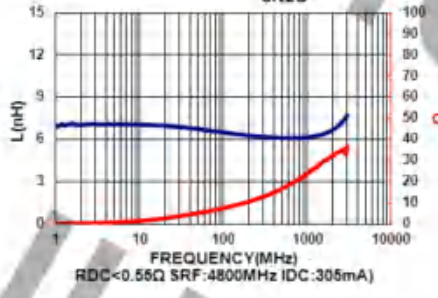
RDC<0.47Ω SRF:5500MHz IDC:325mA

5N6C



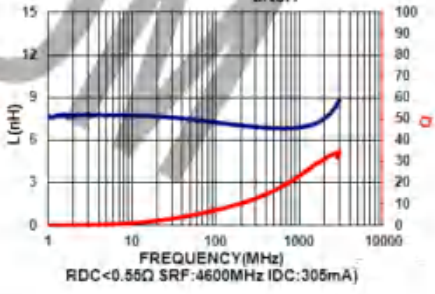
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6N2C



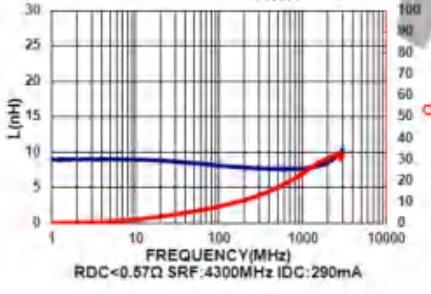
RDC<0.55Ω SRF:4800MHz IDC:305mA)

6N8H



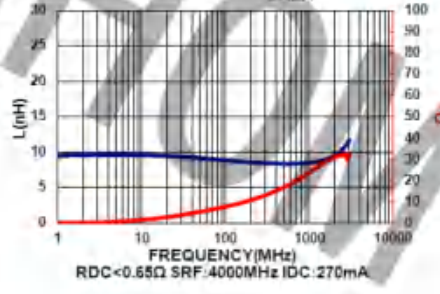
RDC<0.55Ω SRF:4600MHz IDC:305mA)

7N5H



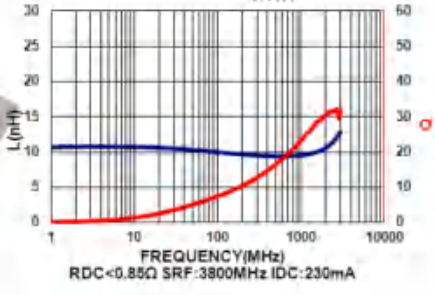
RDC<0.57Ω SRF:4300MHz IDC:290mA

8N2H



RDC<0.65Ω SRF:4000MHz IDC:270mA

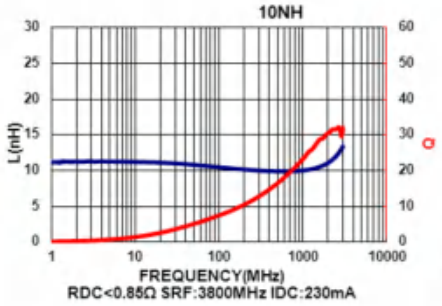
9N1H

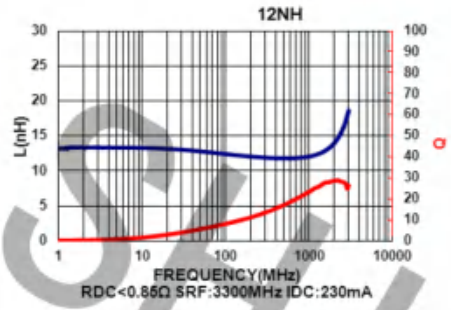


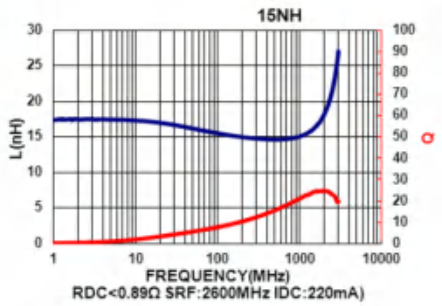
RDC<0.85Ω SRF:3800MHz IDC:230mA

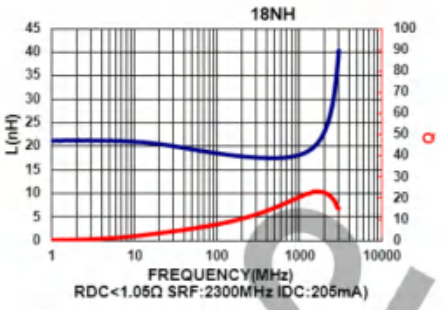
SHINHOM

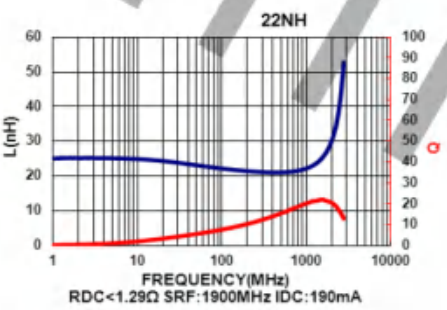
Test Instruments：Agilent E4991A Material/Impedance Analyzer











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SMD Ceramic multilayer chip inductors

AIML0201CC Seires



The 0201CC Series is a type of ceramic chip inductor produced usir the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 0201/0402/0603 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 100 nH.

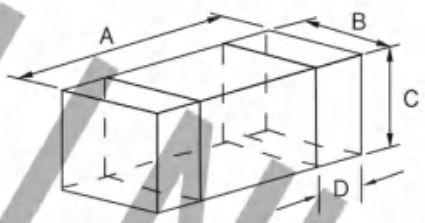
Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

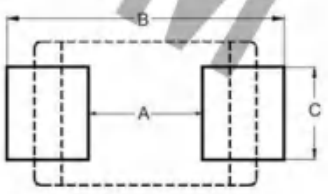
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0201C	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05

Dimensions in mm

TYPE	A	B	C
AIML0201C	0.3	0.75 ~ 1.05	0.3

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Electrical Characteristics

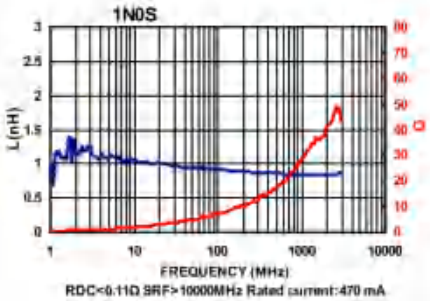
Part Number AIML0201CC-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Min	RDC (Ω) Max	Rated Current (mA) Max
1N0□	1.0	±0.3nH	100	4	>10000	0.11	470
1N2□	1.2	±0.3nH	100	4	>10000	0.12	450
1N5□	1.5	±0.3nH	100	4	>10000	0.13	430
1N8□	1.8	±0.3nH	100	4	>10000	0.16	390
2N0□	2.0	±0.3nH	100	4	>10000	0.17	380
2N2□	2.2	±0.3nH	100	4	8800	0.19	360
2N4□	2.4	±0.3nH	100	4	8300	0.20	350
2N7□	2.7	±0.3nH	100	4	7700	0.21	340
3N0□	3.0	±0.3nH	100	4	7200	0.22	330
3N3□	3.3	±0.3nH	100	4	6700	0.23	320
3N6□	3.6	±0.3nH	100	4	6400	0.25	310
3N9□	3.9	±0.3nH	100	4	6000	0.27	300
4N3□	4.3	±0.3nH	100	4	5700	0.30	280
4N7□	4.7	±0.3nH	100	4	5300	0.30	280
5N1□	5.1	±0.3nH	100	4	5000	0.33	270
5N6□	5.6	±0.3nH	100	4	4600	0.36	260
6N2□	6.2	±0.3nH	100	4	4200	0.38	250
6N8□	6.8	5	100	4	3900	0.39	250
7N5□	7.5	5	100	4	3600	0.41	240
8N2□	8.2	5	100	4	3400	0.45	230
9N1□	9.1	5	100	4	3200	0.48	220
10N□	10	5	100	4	2900	0.51	220
12N□	12	5	100	4	2700	0.68	190
15N□	15	5	100	4	2300	0.71	180
18N□	18	5	100	4	2100	0.81	170
22N□	22	5	100	4	1800	1.00	150
27N□	27	5	100	4	1800	1.35	120
33N□	33	5	100	4	1700	1.47	110
39N□	39	5	100	4	1500	1.72	100
47N□	47	5	100	4	1300	1.90	100
56N□	56	5	100	4	1100	2.27	80
68N□	68	5	100	4	1100	2.66	80
82N□	82	5	100	4	1000	3.37	70
R10□	100	5	100	4	900	3.74	60

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

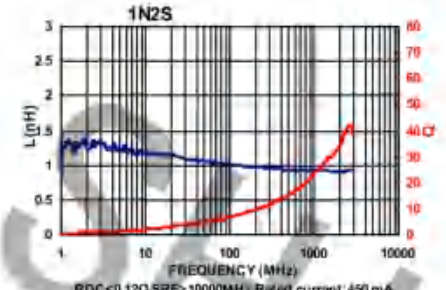
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current :Applied the current to coils, the temperature rise shall not be more than 30℃
- Residual impedance of short chip : 0.19nH
- Measure Equipment :
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

SHINHOM SHINHOM SHINHOM

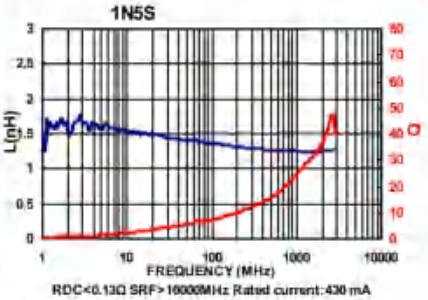
Test Instruments：Agilent E4991A Material/Impedance Analyzer



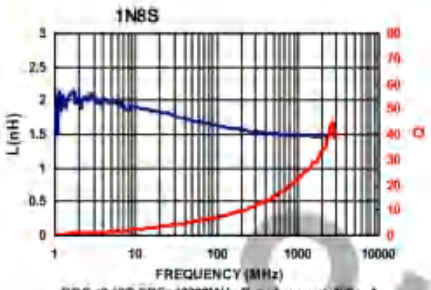
RDC<0.11Ω SRF>10000MHz Rated current:470 mA



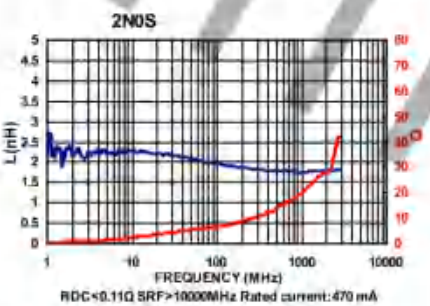
RDC<0.12Ω SRF>10000MHz Rated current:450 mA



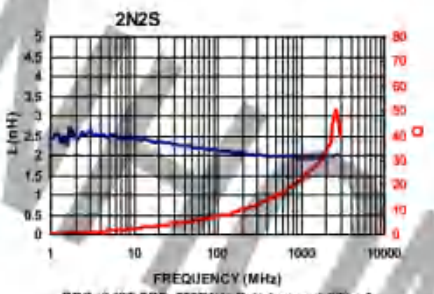
RDC<0.13Ω SRF>10000MHz Rated current:430 mA



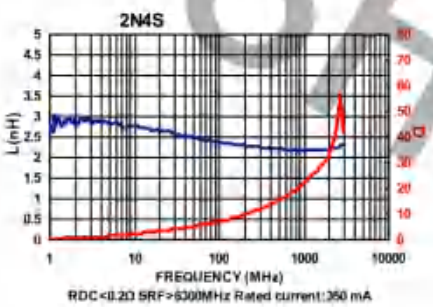
RDC<0.16Ω SRF>10000MHz Rated current:390 mA



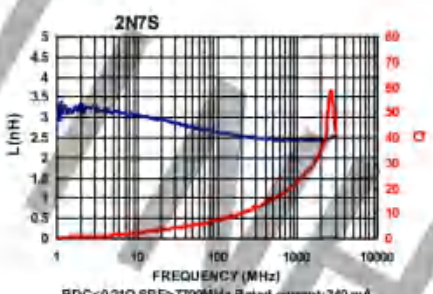
RDC<0.11Ω SRF>10000MHz Rated current:470 mA



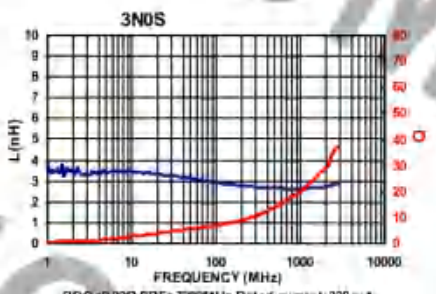
RDC<0.19Ω SRF>8900MHz Rated current:360 mA



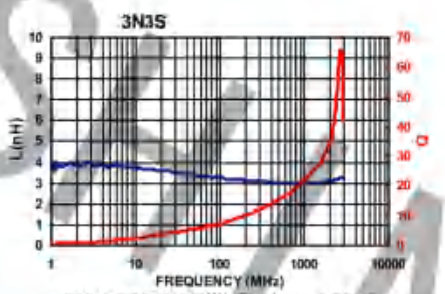
RDC<0.2Ω SRF>8300MHz Rated current:350 mA



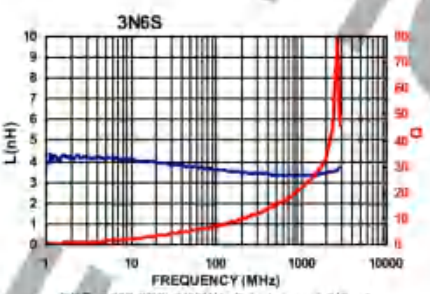
RDC<0.21Ω SRF>7700MHz Rated current:340 mA



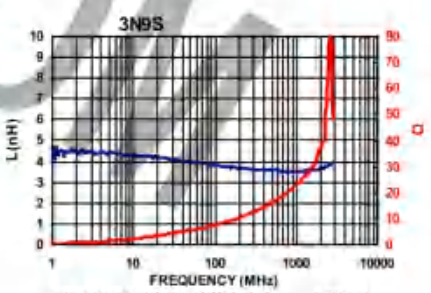
RDC<0.22Ω SRF>7200MHz Rated current:330 mA



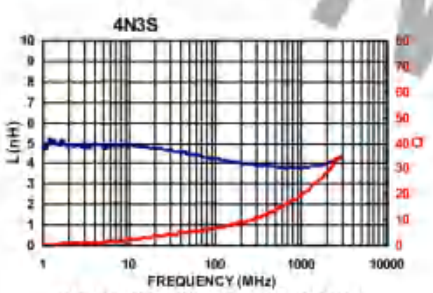
RDC<0.23Ω SRF>6700MHz Rated current:320 mA



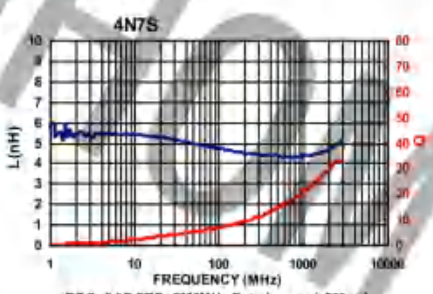
RDC<0.25Ω SRF>6400MHz Rated current:310 mA



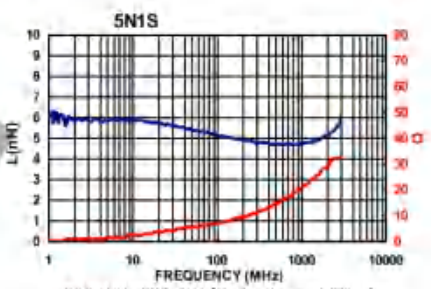
RDC<0.27Ω SRF>6000MHz Rated current:300 mA



RDC<0.3Ω SRF>5700MHz Rated current:290 mA



RDC<0.3Ω SRF>5300MHz Rated current:280 mA

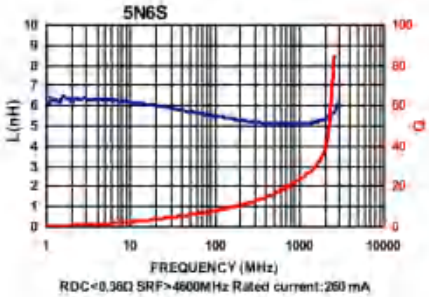


RDC<0.33Ω SRF>5000MHz Rated current:270 mA

SHINHOM

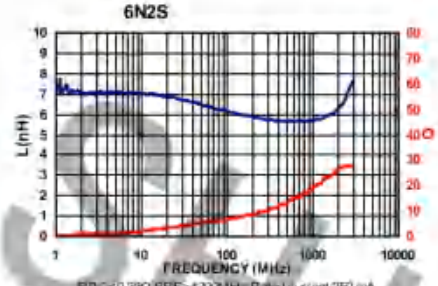
Test Instruments：Agilent E4991A Material/Impedance Analyzer

5N6S



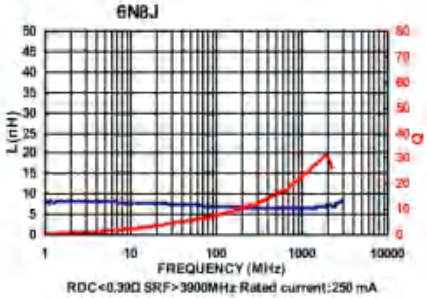
RDC<0.36Ω SRF>4600MHz Rated current:260 mA

6N2S



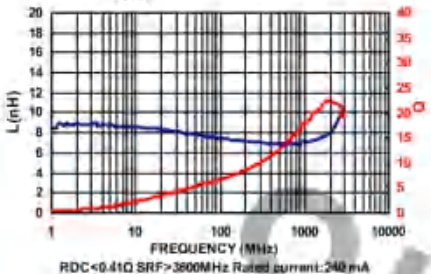
RDC<0.38Ω SRF>4200MHz Rated current:250 mA

6N8J



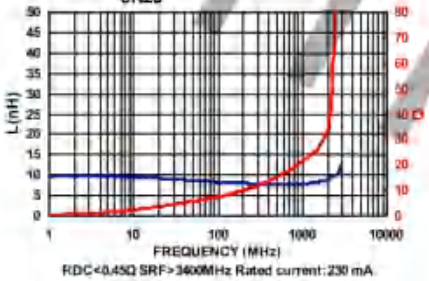
RDC<0.39Ω SRF>3900MHz Rated current:250 mA

7N5J



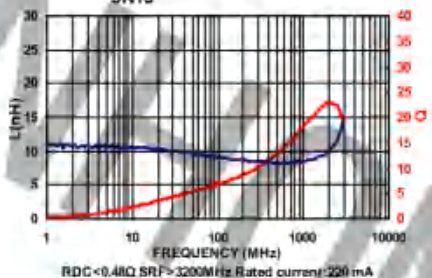
RDC<0.41Ω SRF>3800MHz Rated current:240 mA

8N2J



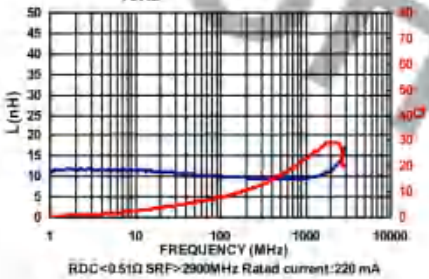
RDC<0.45Ω SRF>3400MHz Rated current:230 mA

9N1J



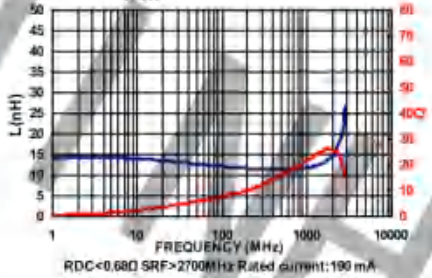
RDC<0.48Ω SRF>3200MHz Rated current:220 mA

10NJ



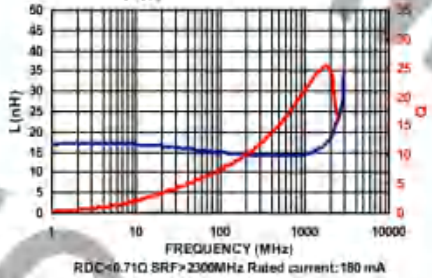
RDC<0.51Ω SRF>2900MHz Rated current:220 mA

12NJ



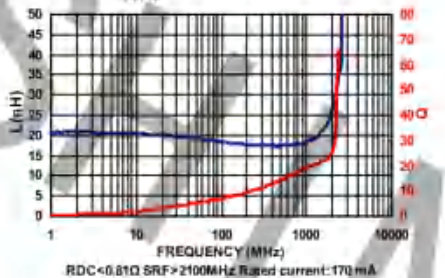
RDC<0.68Ω SRF>2700MHz Rated current:190 mA

15NJ



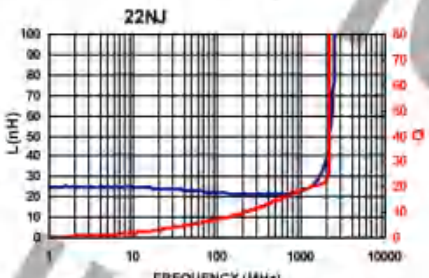
RDC<0.71Ω SRF>2300MHz Rated current:180 mA

18NJ



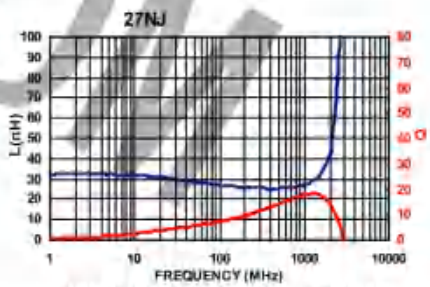
RDC<0.81Ω SRF>2100MHz Rated current:170 mA

22NJ



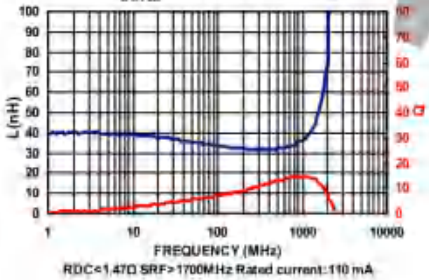
RDC<1.0Ω SRF>1800MHz Rated current:150 mA

27NJ



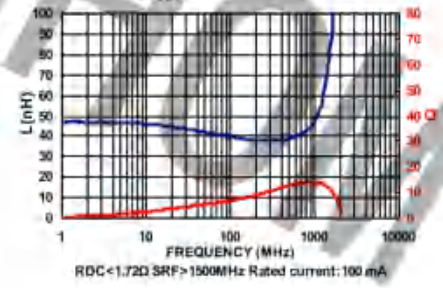
RDC<1.35Ω SRF>1500MHz Rated current:120 mA

33NJ



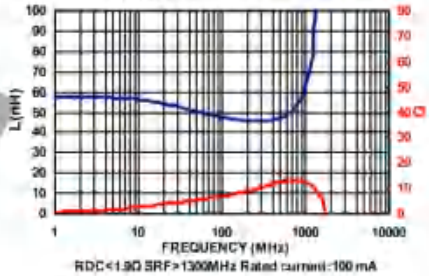
RDC<1.47Ω SRF>1700MHz Rated current:110 mA

39NJ



RDC<1.72Ω SRF>1500MHz Rated current:100 mA

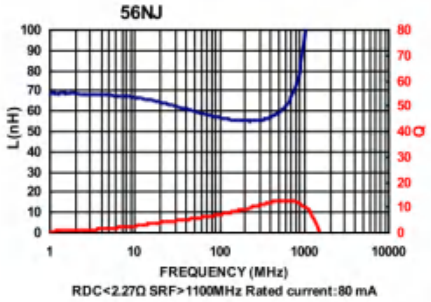
47NJ

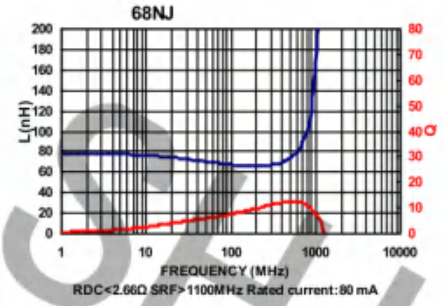


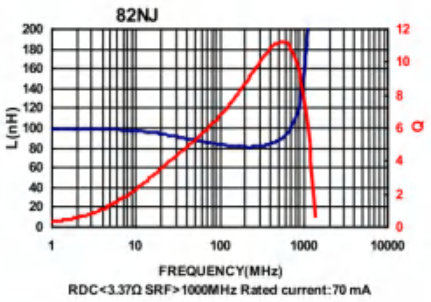
RDC<1.9Ω SRF>1300MHz Rated current:100 mA

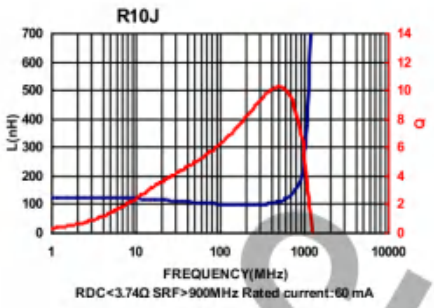
SHINHOM

Test Instruments：Agilent E4991A Material/Impedance Analyzer









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SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0402C SERIES



FEATURES:

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

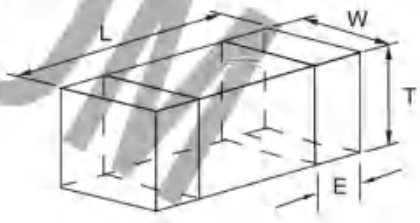
Part Number	L(nH) ±10%	Q Min	LQ Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402C-1N0S	1.0 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N1S	1.1 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N2S	1.2 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N3S	1.3 ± 0.3	7	100	10000	0.1	400
AIML0402C-1N5S	1.5 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N6S	1.6 ± 0.3	7	100	6000	0.1	300
AIML0402C-1N8S	1.8 ± 0.3	7	100	6000	0.1	300
AIML0402C-2N0S	2.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N2S	2.2 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N4S	2.4 ± 0.3	7	100	6000	0.2	300
AIML0402C-2N7S	2.7 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N0S	3.0 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N3S	3.3 ± 0.3	7	100	6000	0.2	300
AIML0402C-3N6S	3.6 ± 0.3	7	100	4000	0.2	300
AIML0402C-3N9S	3.9 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N3S	4.3 ± 0.3	7	100	4000	0.2	300
AIML0402C-4N7S	4.7 ± 0.3	7	100	4000	0.2	300
AIML0402C-5N1S	5.1 ± 0.3	7	100	4000	0.3	300
AIML0402C-5N6S	5.6 ± 0.3	7	100	4000	0.3	300
AIML0402C-6N2S	6.2 ± 0.3	7	100	3900	0.3	300
AIML0402C-6N8J	6.8 ± 5%	7	100	3900	0.3	300
AIML0402C-7N5J	7.5 ± 5%	7	100	3700	0.4	300
AIML0402C-8N2J	8.2 ± 5%	7	100	3600	0.4	300
AIML0402C-9N1J	9.1 ± 5%	7	100	3400	0.4	300
AIML0402C-10NJ	10 ± 5%	7	100	3200	0.4	300
AIML0402C-12NJ	12 ± 5%	8	100	2700	0.5	300
AIML0402C-15NJ	15 ± 5%	8	100	2300	0.5	300
AIML0402C-18NJ	18 ± 5%	8	100	2100	0.6	300
AIML0402C-20NJ	20 ± 5%	8	100	2000	0.6	300
AIML0402C-22NJ	22 ± 5%	8	100	1900	0.6	300
AIML0402C-27NJ	27 ± 5%	8	100	1600	0.7	300
AIML0402C-33NJ	33 ± 5%	8	100	1300	0.8	200
AIML0402C-39NJ	39 ± 5%	8	100	1200	1.0	200
AIML0402C-47NJ	47 ± 5%	8	100	1100	1.1	200
AIML0402C-56NJ	56 ± 5%	8	100	750	1.2	200
AIML0402C-68NJ	68 ± 5%	8	100	750	1.4	180
AIML0402C-82NJ	82 ± 5%	8	100	750	2.4	150
AIML0402C-R10J	100 ± 5%	8	100	700	2.6	150
AIML0402C-R12J	120 ± 5%	8	100	600	2.8	150
AIML0402C-R15J	150 ± 5%	8	100	550	3.2	100
AIML0402C-R18J	180 ± 5%	8	100	500	3.7	100
AIML0402C-R22J	220 ± 5%	8	100	450	4.0	100

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8720C
- Solderability:90% of the terminal
  Electrode shall be covered
  Preheat: @ 260℃ ± 5℃ for 160 seconds
  Solder:H63AA Eutectic Solder
  Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be
  Within ± 5% of imitial value
  and Q shall be within ± 30% of initial value
  When temperaturs is -40℃ and +85℃ for 30
  Min.for each 100 cycles
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -40℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.0 ± 0.15
W	0.5 ± 0.15
T	0.5 ± 0.15
E	0.25 ± 0.1

SHINHOM

SMD Ceramic multilayer chip inductors

AIML0402CA Seires



0402CA Series supports miniaturized devices. Its low inductance, high precision and high Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

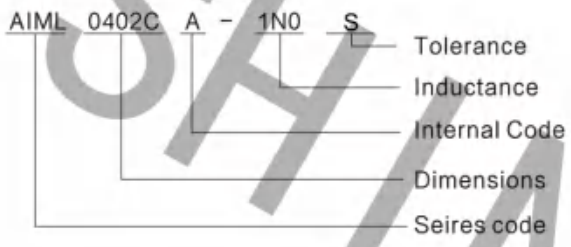
Features

- Excellent high frequency application
- High Q factor and SRF value
- Miniaturization
- Tight tolerance
- Wide inductance range

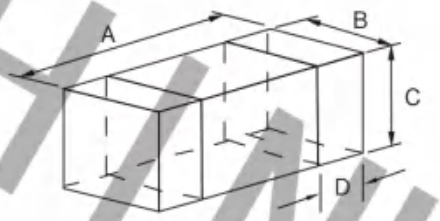
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

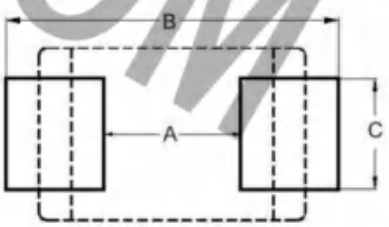
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0402C	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm

TYPE	A	B	C
AIML0402C	0.4	1.2 ~ 1.4	0.5

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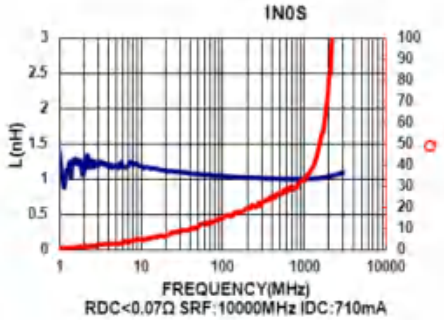
Electrical Characteristics

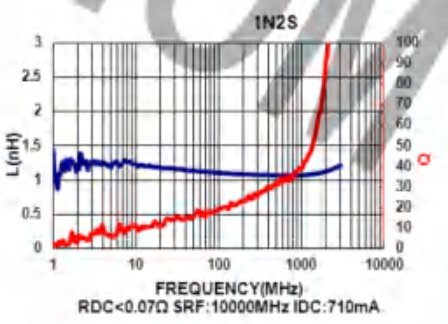
Part Number AIML0402CA-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min 100MHz	Q Typ 250MHz	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
1N0□	1.0	±0.3nH	100	8	23	10000	0.07	710
1N2□	1.2	±0.3nH	100	8	23	10000	0.07	710
1N5□	1.5	±0.3nH	100	8	20	8000	0.07	710
1N8□	1.8	±0.3nH	100	8	20	6000	0.07	710
2N0□	2.0	±0.3nH	100	8	20	6000	0.08	660
2N2□	2.2	±0.3nH	100	8	20	6000	0.08	660
2N4□	2.4	±0.3nH	100	8	18	6000	0.09	630
2N7□	2.7	±0.3nH	100	8	18	6000	0.09	630
3N0□	3.0	±0.3nH	100	8	18	6000	0.11	570
3N3□	3.3	±0.3nH	100	8	18	6000	0.12	540
3N6□	3.6	±0.3nH	100	8	18	5000	0.14	500
3N9□	3.9	±0.3nH	100	8	18	4000	0.15	490
4N3□	4.3	±0.3nH	100	8	18	4000	0.16	470
4N7□	4.7	±0.3nH	100	8	18	4000	0.17	450
5N1□	5.1	±0.3nH	100	8	17	4000	0.19	430
5N6□	5.6	±0.3nH	100	8	17	4000	0.20	420
6N2□	6.2	±0.3nH	100	8	17	3900	0.22	400
6N8□	6.8	5	100	8	17	3900	0.23	390
7N5□	7.5	5	100	8	17	3700	0.25	370
8N2□	8.2	5	100	8	17	3600	0.27	360
9N1□	9.1	5	100	8	17	3400	0.29	350
10N□	10	5	100	8	17	3200	0.31	330
12N□	12	5	100	8	17	2700	0.39	300
15N□	15	5	100	8	17	2300	0.45	280

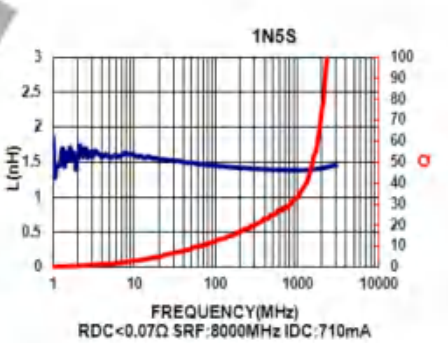
Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.19nH(Inductance ≤4.3nH) or 0.48nH(Inductance >4.3nH)
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：Agilent E4991A or HP19196C
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Material/Impedance Analyzer



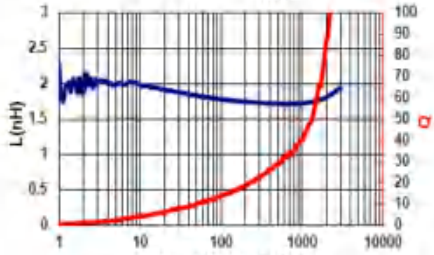




SHINHOM

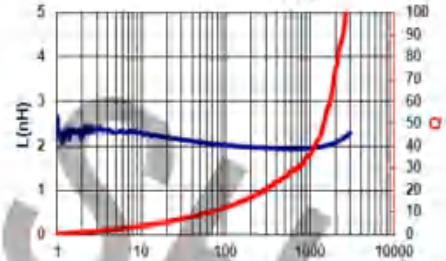
Test Instruments：Agilent E4991A Material/Impedance Analyzer

1N8S



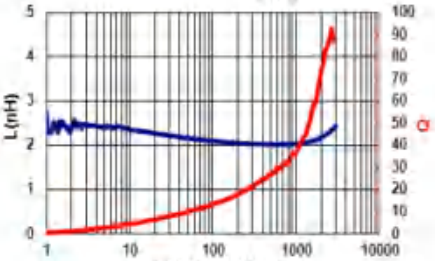
RDC<0.07Ω SRF:6000MHz IDC:710mA

2N0S



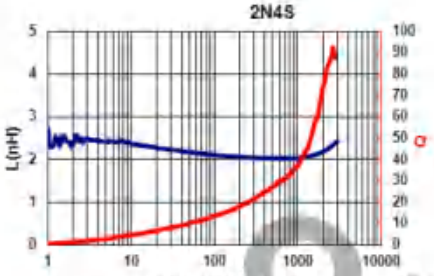
RDC<0.08Ω SRF:6000MHz IDC:660mA

2N2S



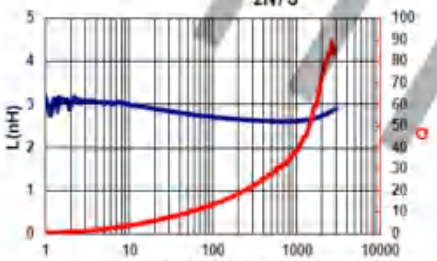
RDC<0.08Ω SRF:6000MHz IDC:660mA

2N4S



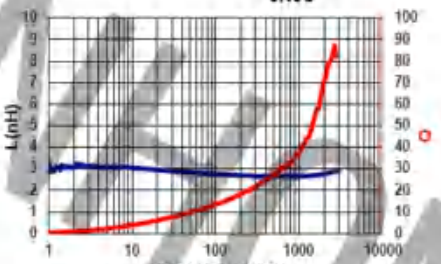
RDC<0.09Ω SRF:6000MHz IDC:630mA

2N7S



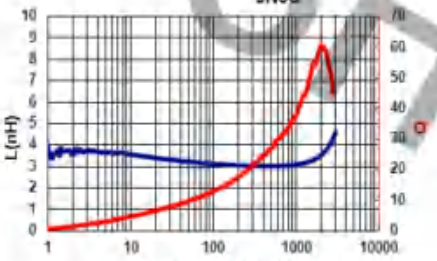
RDC<0.09Ω SRF:6000MHz IDC:630mA

3N0S



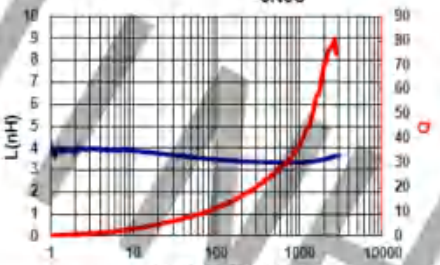
RDC<0.11Ω SRF:6000MHz IDC:570mA

3N3S



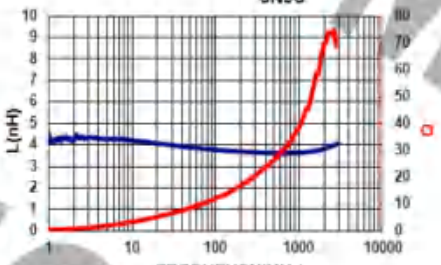
RDC<0.12Ω SRF:6000MHz IDC:540mA

3N6S



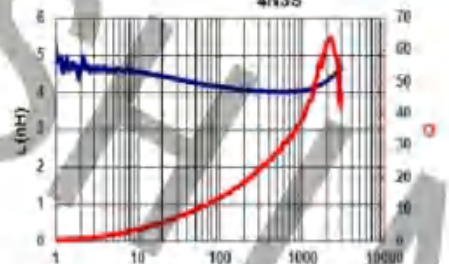
RDC<0.14Ω SRF:5000MHz IDC:500mA

3N9S



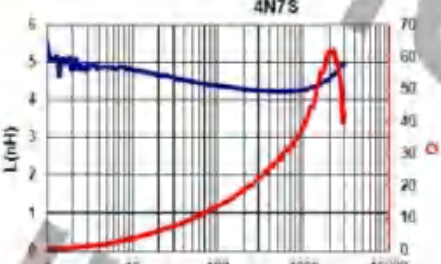
RDC<0.15Ω SRF:4000MHz IDC:490mA

4N3S



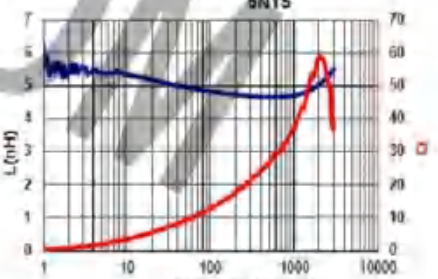
RDC<0.16Ω SRF:4000MHz IDC:470mA

4N7S



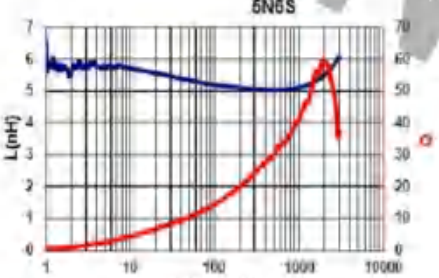
RDC<0.17Ω SRF:4000MHz IDC:460mA

5N1S



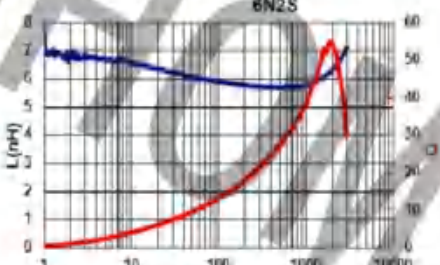
RDC<0.19Ω SRF:4000MHz IDC:430mA

5N6S



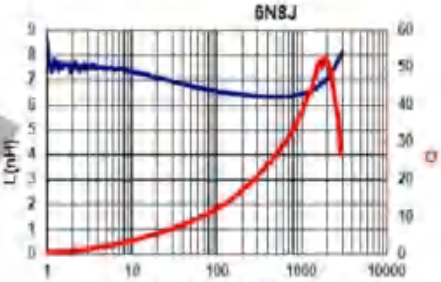
RDC<0.20Ω SRF:4000MHz IDC:420mA

6N2S



RDC<0.22Ω SRF:3900MHz IDC:400mA

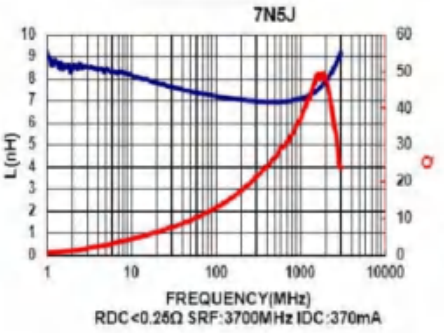
6N8J

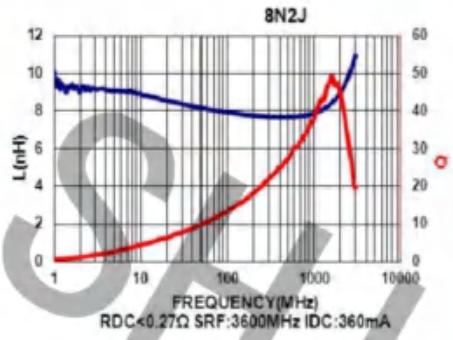


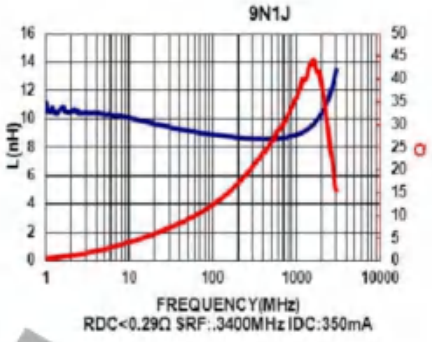
RDC<0.23Ω SRF:3900MHz IDC:390mA

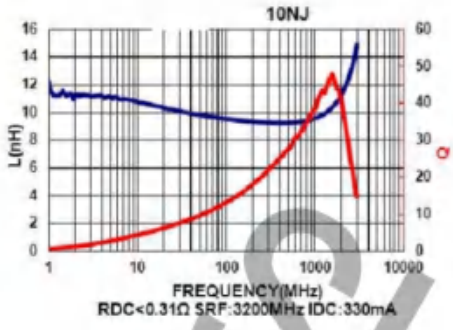
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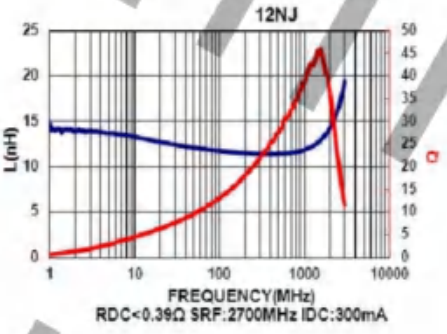
Test Instruments： Agilent E4991A Material/Impedance Analyzer

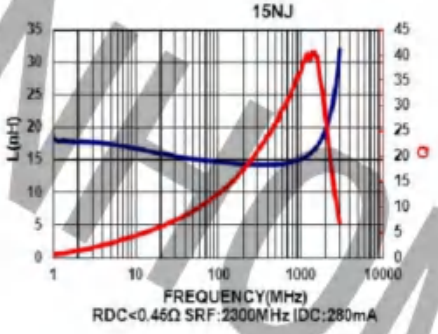












SHINHOM
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SMD Ceramic multilayer chip inductors

AIML0402CC Seires



The 0402CC Series is a type of ceramic chip inductor produced usi the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

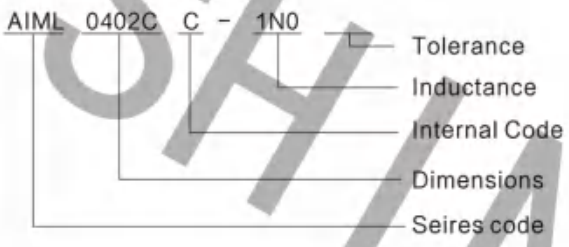
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 0402/0603 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 270 nH.

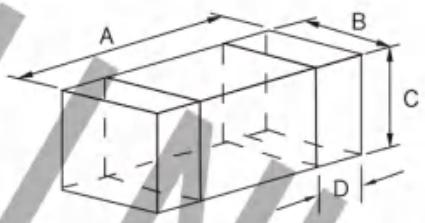
Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

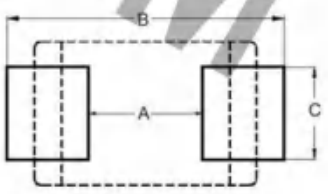
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0402C	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm

TYPE	A	B	C
AIML0402C	0.4	1.2 ~ 1.4	0.5

SHINHOM SHINHOM SHINHOM

Electrical Characteristics

Part Number AIML0402CC-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
1N0☐	1.0	±0.3nH	100	8	10000	0.07	400
1N1☐	1.1	±0.3nH	100	8	10000	0.10	400
1N2☐	1.2	±0.3nH	100	8	10000	0.09	400
1N3☐	1.3	±0.3nH	100	8	9000	0.10	400
1N5☐	1.5	±0.3nH	100	8	9000	0.10	400
1N6☐	1.6	±0.3nH	100	8	8700	0.10	400
1N8☐	1.8	±0.3nH	100	8	8700	0.10	400
2N0☐	2.0	±0.3nH	100	8	8100	0.10	400
2N2☐	2.2	±0.3nH	100	8	8100	0.12	400
2N4☐	2.4	±0.3nH	100	8	7700	0.15	400
2N7☐	2.7	±0.3nH	100	8	7700	0.15	400
3N0☐	3.0	±0.3nH	100	8	6300	0.15	400
3N3☐	3.3	±0.3nH/10	100	8	6300	0.15	400
3N6☐	3.6	±0.3nH/10	100	8	6100	0.15	400
3N9☐	3.9	±0.3nH/10	100	8	6100	0.18	400
4N3☐	4.3	±0.3nH/10	100	8	6000	0.18	400
4N7☐	4.7	±0.3nH/10	100	8	6000	0.18	400
5N0☐	5.0	±0.3nH/10	100	8	5100	0.20	400
5N1☐	5.1	±0.3nH/10	100	8	5300	0.20	400
5N6☐	5.6	±0.3nH/10	100	8	5100	0.20	400
6N8☐	6.8	5 / 10	100	8	4550	0.24	400
8N0☐	8.0	5 / 10	100	8	4100	0.30	300
8N2☐	8.2	5 / 10	100	8	4100	0.24	300
9N1☐	9.1	5 / 10	100	8	3900	0.26	300
10N☐	10	5 / 10	100	8	3900	0.26	300
12N☐	12	5 / 10	100	8	3000	0.40	300
15N☐	15	5 / 10	100	8	2800	0.50	300
18N☐	18	5 / 10	100	8	2500	0.55	300
22N☐	22	5 / 10	100	8	2200	0.70	300
24N☐	24	5 / 10	100	8	2100	0.70	300
27N☐	27	5 / 10	100	8	2000	0.80	300
33N☐	33	5 / 10	100	8	1800	0.9	200
39N☐	39	5 / 10	100	8	1600	1.0	150
47N☐	47	5 / 10	100	8	1400	1.2	150
56N☐	56	5 / 10	100	8	1300	1.3	150
68N☐	68	5 / 10	100	8	1100	1.5	100

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B or CHEN HWA 502

SHINHOM

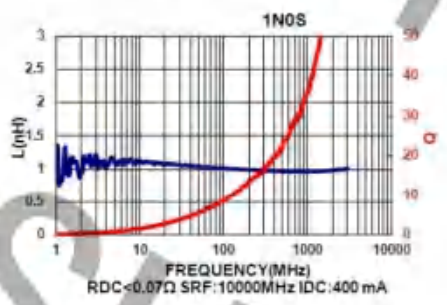
Electrical Characteristics

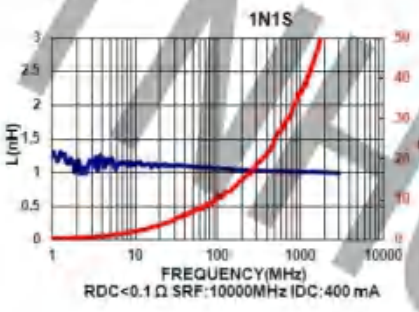
Part Number AIML0402CC-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
75N☐	75	5 / 10	100	8	1080	1.5	100
82N☐	82	5 / 10	100	8	1000	1.6	100
R10☐	100	5 / 10	100	8	900	2.0	100
R12☐	120	5 / 10	100	8	800	2.2	100
R15☐	150	5 / 10	100	8	700	3.5	100
R18☐	180	5 / 10	100	8	600	3.8	100
R22☐	220	5 / 10	100	8	500	4.2	100
R27☐	270	5 / 10	100	8	500	4.8	100

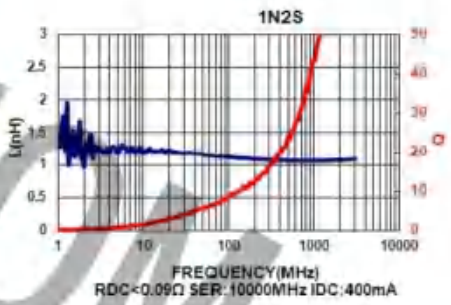
Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

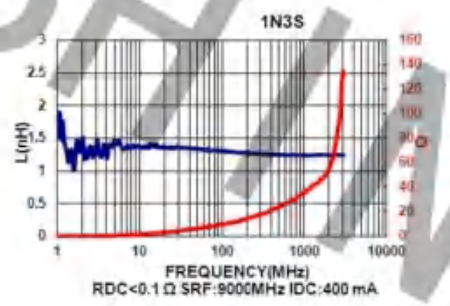
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B or CHEN HWA 502

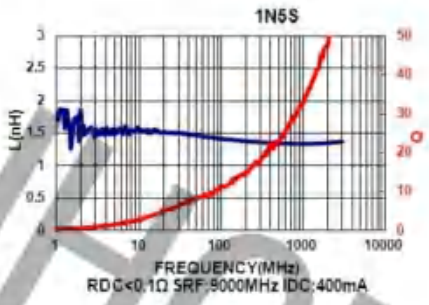
Test Instruments：Agilent E4991A Material/Impedance Analyzer

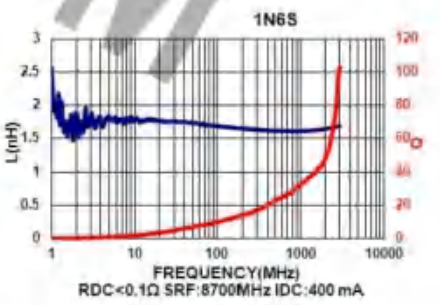


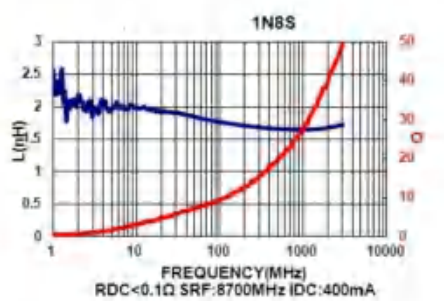


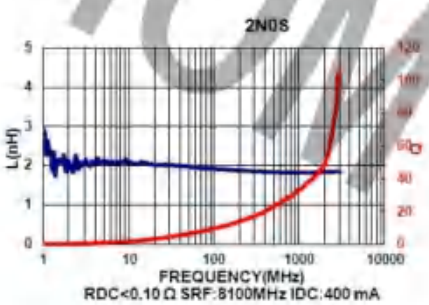


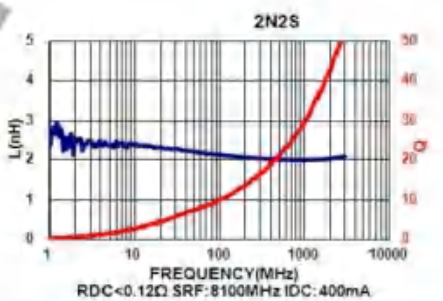








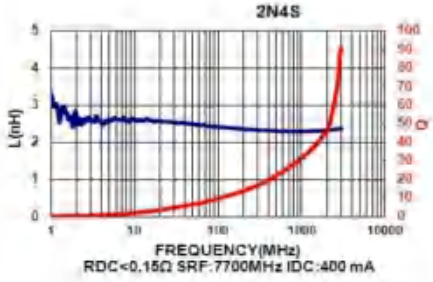




SHINHOM

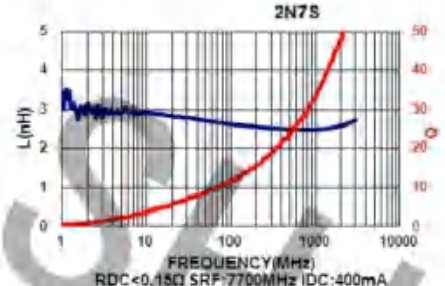
Test Instruments：Agilent E4991A Material/Impedance Analyzer

2N4S



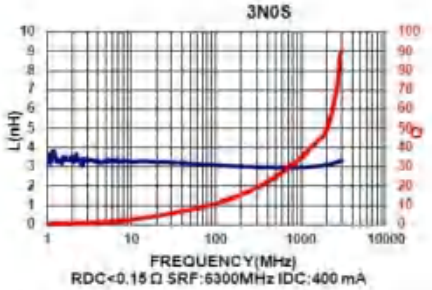
RDC<0.15Ω SRF:7700MHz IDC:400 mA

2N7S



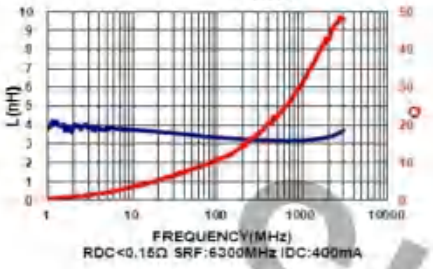
RDC<0.15Ω SRF:7700MHz IDC:400mA

3N0S



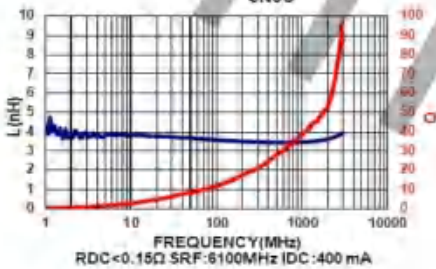
RDC<0.15 Ω SRF:6300MHz IDC:400 mA

3N3S



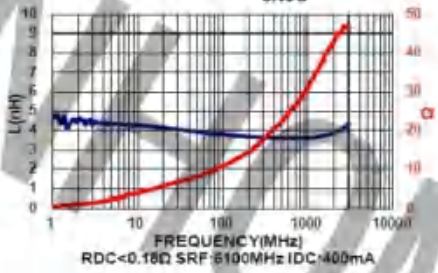
RDC<0.15Ω SRF:6300MHz IDC:400mA

3N6S



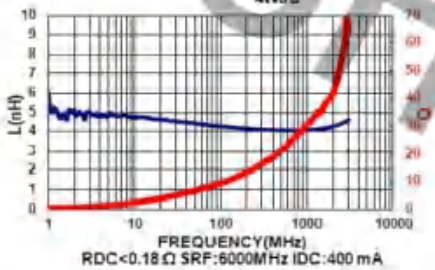
RDC<0.15Ω SRF:6100MHz IDC:400 mA

3N9S



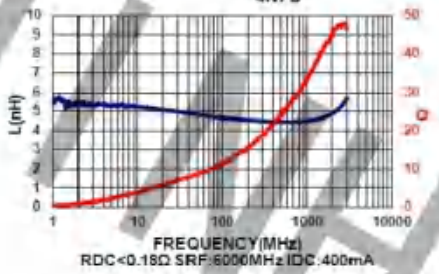
RDC<0.18Ω SRF:6100MHz IDC:400mA

4N3S



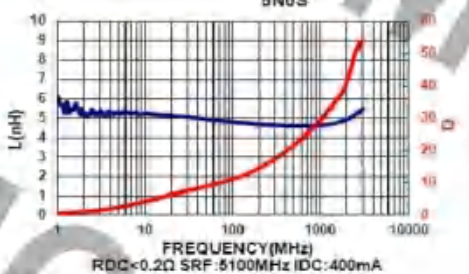
RDC<0.18Ω SRF:6000MHz IDC:400 mA

4N7S



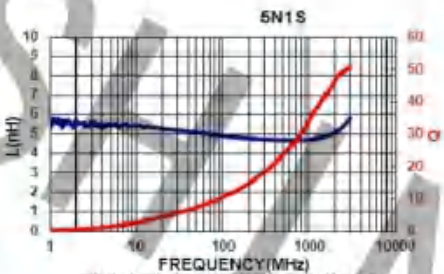
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5N0S



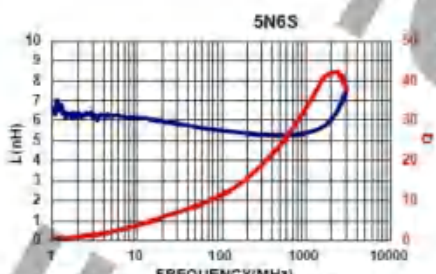
RDC<0.2Ω SRF:5100MHz IDC:400mA

5N1S



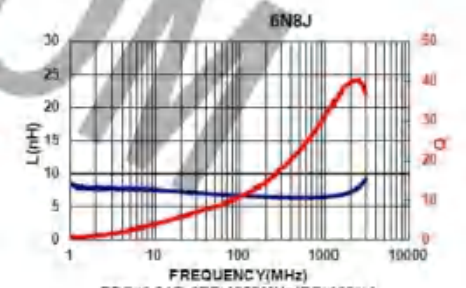
RDC<0.2Ω SRF:5300MHz IDC:400 mA

5N6S



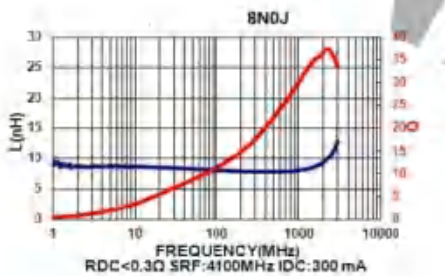
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6N8J



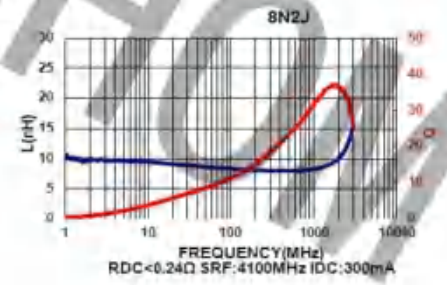
RDC<0.24Ω SRF:4550MHz IDC:400mA

8N0J



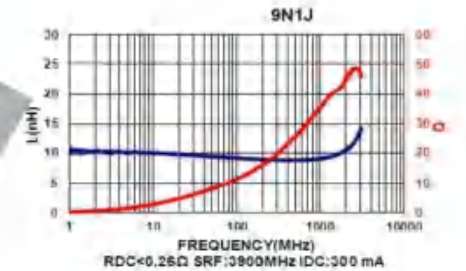
RDC<0.3Ω SRF:4100MHz IDC:300 mA

8N2J



RDC<0.24Ω SRF:4100MHz IDC:300mA

9N1J

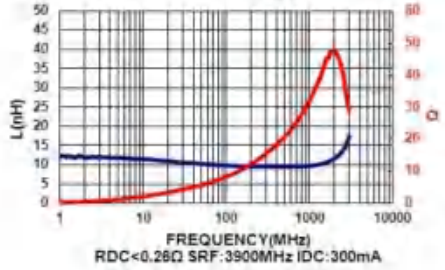


RDC<0.26Ω SRF:3900MHz IDC:300 mA

SHINHOM

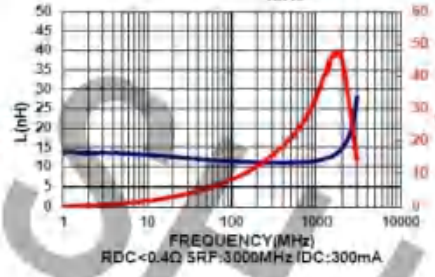
Test Instruments：Agilent E4991A Material/Impedance Analyzer

10NJ



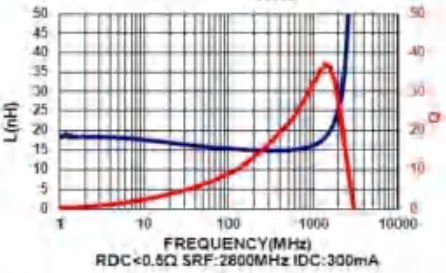
RDC<0.28Ω SRF:3900MHz IDC:300mA

12NJ



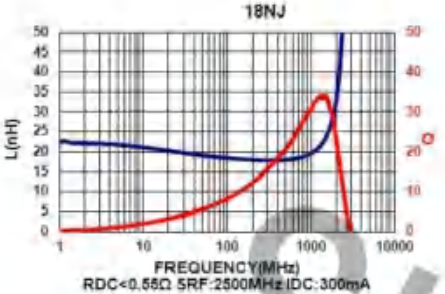
RDC<0.4Ω SRF:3000MHz IDC:300mA

15NJ



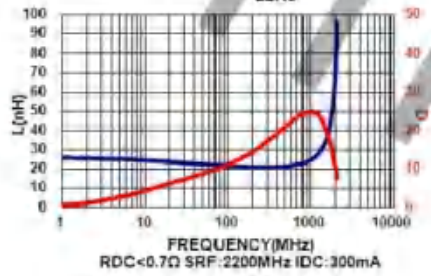
RDC<0.5Ω SRF:2800MHz IDC:300mA

18NJ



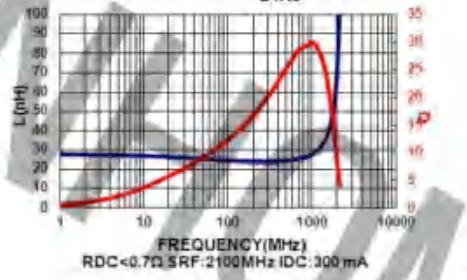
RDC<0.55Ω SRF:2500MHz IDC:300mA

22NJ



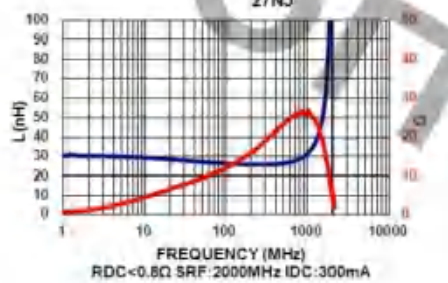
RDC<0.7Ω SRF:2200MHz IDC:300mA

24NJ



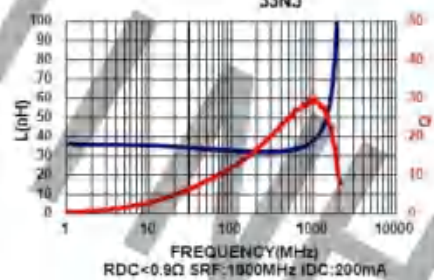
RDC<0.7Ω SRF:2100MHz IDC:300 mA

27NJ



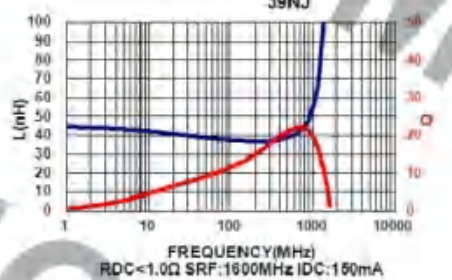
RDC<0.8Ω SRF:2000MHz IDC:300mA

33NJ



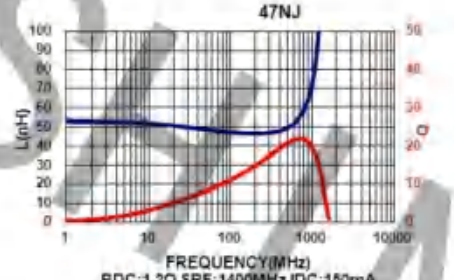
RDC<0.9Ω SRF:1800MHz IDC:200mA

39NJ



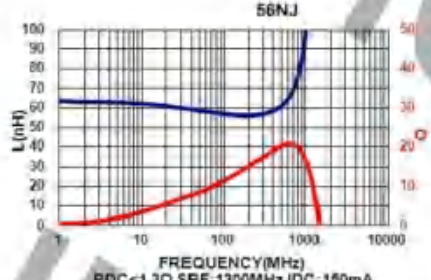
RDC<1.0Ω SRF:1600MHz IDC:150mA

47NJ



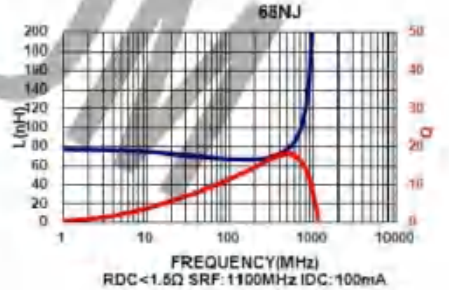
RDC:1.2Ω SRF:1400MHz IDC:150mA

56NJ



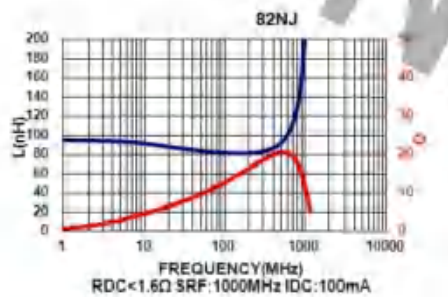
RDC<1.3Ω SRF:1300MHz IDC:150mA

68NJ



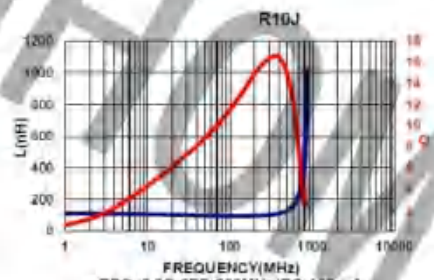
RDC<1.5Ω SRF:1100MHz IDC:100mA

82NJ



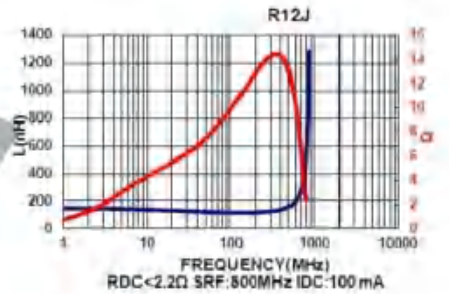
RDC<1.6Ω SRF:1000MHz IDC:100mA

R10J



RDC<2.0Ω SRF:900MHz IDC:100 mA

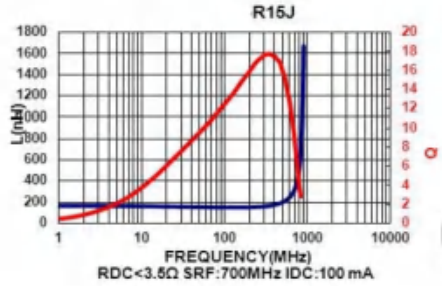
R12J

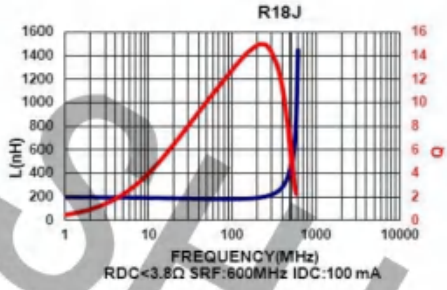


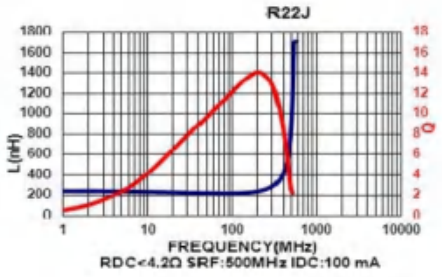
RDC<2.2Ω SRF:800MHz IDC:100 mA

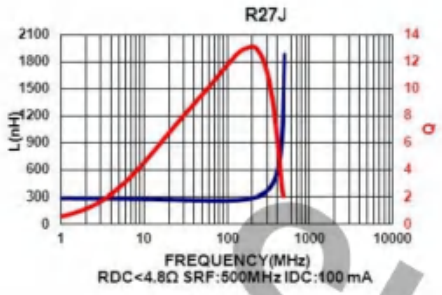
SHINHOM

Test Instruments：Agilent E4991A Material/Impedance Analyzer









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SHINHOM

SMD Ceramic multilayer chip inductors

AIML0402CD Seires



The 0402CD Series is a type of ceramic chip inductor produced usir the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

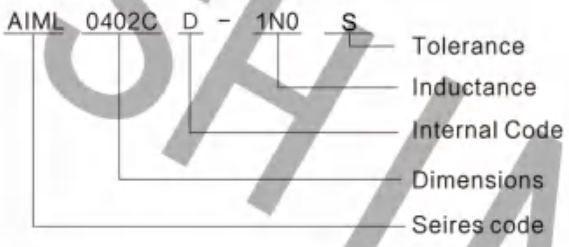
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 0402/0603 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 82 nH.

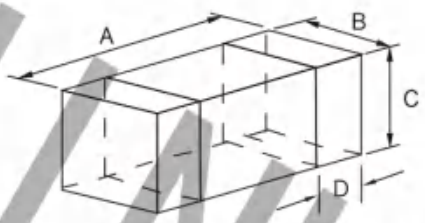
Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

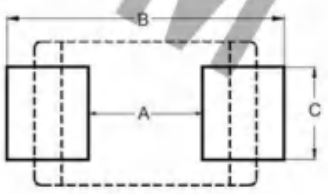
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0402C	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm

TYPE	A	B	C
AIML0402C	0.4	1.2 ~ 1.4	0.5

SHINHOM SHINHOM SHINHOM

Electrical Characteristics

Part Number AIML0402CD-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	Rated Current (mA) Max
1N0☐	1.0	±0.3nH	100	8	10000	0.07	400
1N1☐	1.1	±0.3nH	100	8	10000	0.10	400
1N2☐	1.2	±0.3nH	100	8	10000	0.09	400
1N3☐	1.3	±0.3nH	100	8	9000	0.10	400
1N5☐	1.5	±0.3nH	100	8	9000	0.10	400
1N6☐	1.6	±0.3nH	100	8	8700	0.10	400
1N8☐	1.8	±0.3nH	100	8	8700	0.10	400
2N0☐	2.0	±0.3nH	100	8	8100	0.10	400
2N2☐	2.2	±0.3nH	100	8	8100	0.12	400
2N4☐	2.4	±0.3nH	100	8	7700	0.15	400
2N7☐	2.7	±0.3nH	100	8	7700	0.15	400
3N0☐	3.0	±0.3nH	100	8	6300	0.15	400
3N3☐	3.3	±0.3nH	100	8	6300	0.15	400
3N6☐	3.6	±0.3nH	100	8	6100	0.15	400
3N9☐	3.9	±0.3nH	100	8	6100	0.18	400
4N3☐	4.3	±0.3nH	100	8	6000	0.18	400
4N7☐	4.7	±0.3nH	100	8	6000	0.18	400
5N1☐	5.1	±0.3nH	100	8	5300	0.20	400
5N6☐	5.6	±0.3nH	100	8	5100	0.20	400
6N2☐	6.2	±0.3nH/5/10	100	8	4500	0.22	400
6N8☐	6.8	5 / 10	100	8	4550	0.24	400
7N5☐	7.5	5 / 10	100	8	4200	0.24	300
8N2☐	8.2	5 / 10	100	8	4100	0.24	300
9N1☐	9.1	5 / 10	100	8	3900	0.26	300
10N☐	10	5 / 10	100	8	3900	0.26	300
12N☐	12	5 / 10	100	8	3000	0.28	300
15N☐	15	5 / 10	100	8	2500	0.32	300
18N☐	18	5 / 10	100	8	2200	0.36	300
22N☐	22	5 / 10	100	8	1900	0.42	300
27N☐	27	5 / 10	100	8	1700	0.46	300
33N☐	33	5 / 10	100	8	1600	0.58	200
39N☐	39	5 / 10	100	8	1200	0.65	200
47N☐	47	5 / 10	100	8	1000	0.72	200
56N☐	56	5 / 10	100	8	800	0.82	200
68N☐	68	5 / 10	100	8	800	0.92	180
82N☐	82	5 / 10	100	8	700	1.20	150

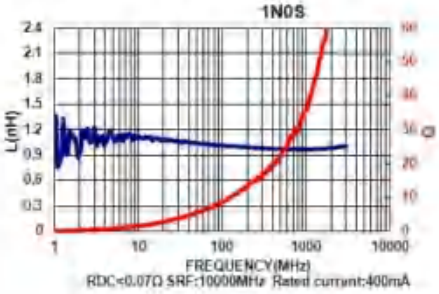
Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Residual impedance of short chip : 0nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B or CHEN HWA 502

SHINHOM SHINHOM SHINHOM

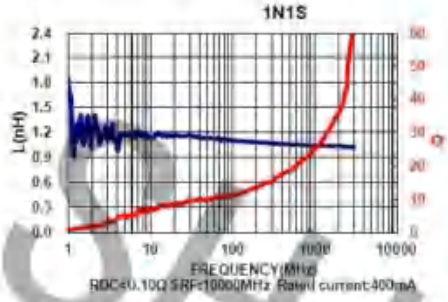
Test Instruments：Agilent E4991A Material/Impedance Analyzer

1N0S



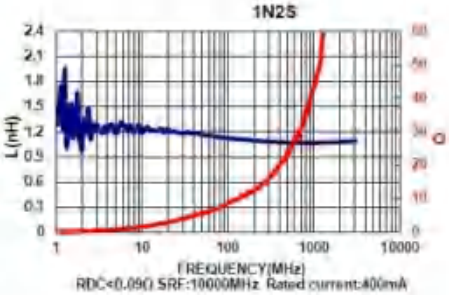
RDC<0.07Ω SRF:10000MHz Rated current:400mA

1N1S



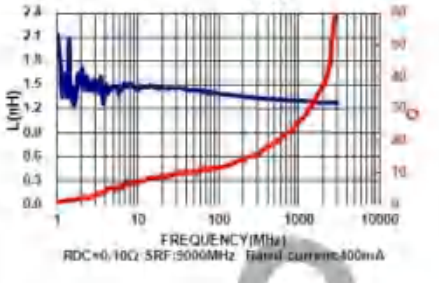
RDC<0.10Ω SRF:10000MHz Rated current:400mA

1N2S



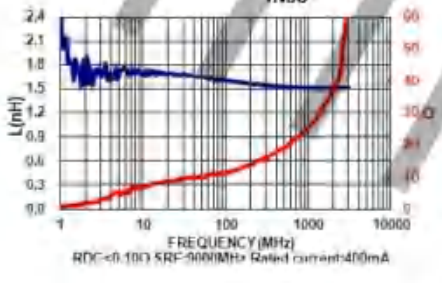
RDC<0.09Ω SRF:10000MHz Rated current:400mA

1N3S



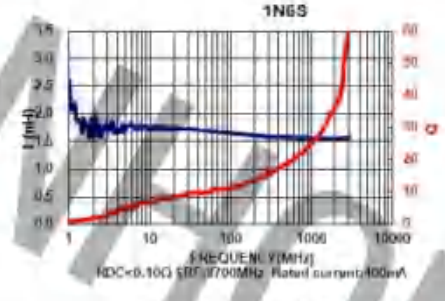
RDC<0.10Ω SRF:9000MHz Rated current:400mA

1N6S



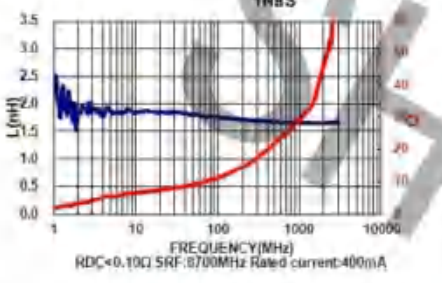
RDC<0.10Ω SRF:9000MHz Rated current:400mA

1N6S



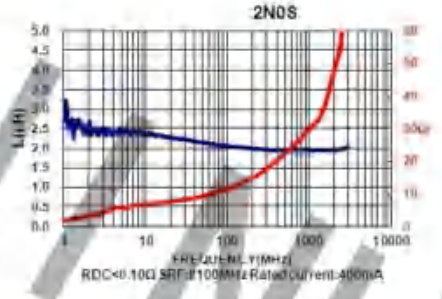
RDC<0.10Ω SRF:9700MHz Rated current:400mA

1N8S



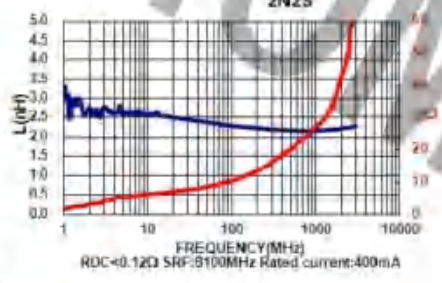
RDC<0.10Ω SRF:8700MHz Rated current:400mA

2N0S



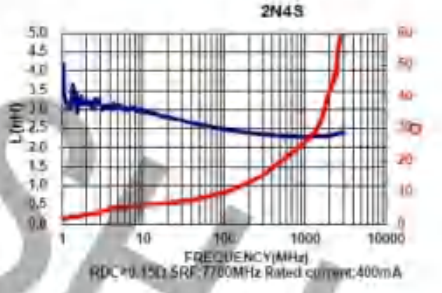
RDC<0.10Ω SRF:8100MHz Rated current:400mA

2N2S



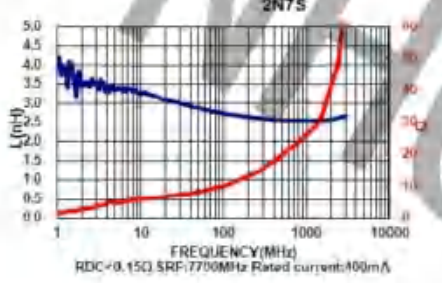
RDC<0.12Ω SRF:8100MHz Rated current:400mA

2N4S



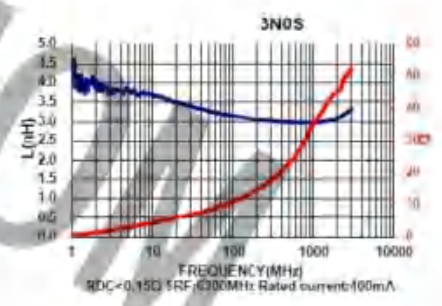
RDC<0.15Ω SRF:7700MHz Rated current:400mA

2N7S



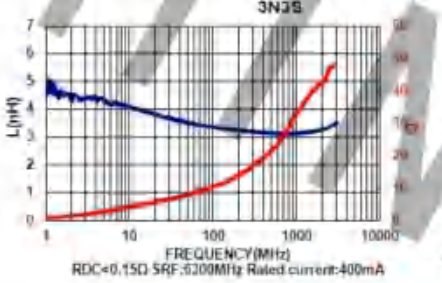
RDC<0.15Ω SRF:7700MHz Rated current:400mA

3N0S



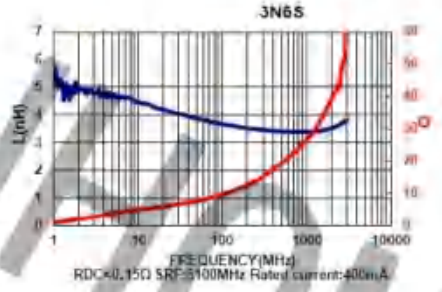
RDC<0.15Ω SRF:6300MHz Rated current:400mA

3N3S



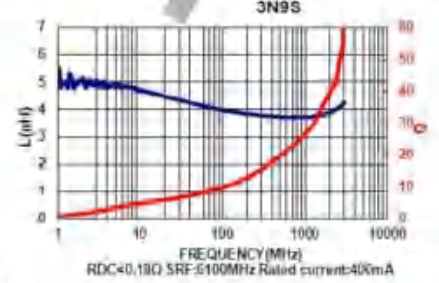
RDC<0.15Ω SRF:6200MHz Rated current:400mA

3N6S



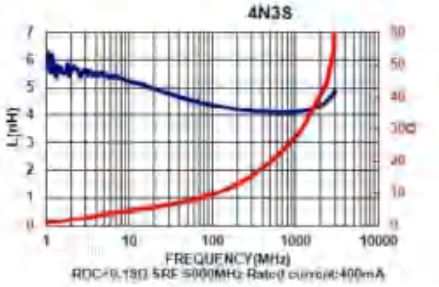
RDC<0.15Ω SRF:6100MHz Rated current:400mA

3N9S



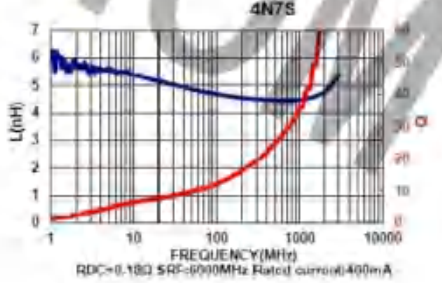
RDC<0.18Ω SRF:6100MHz Rated current:400mA

4N3S



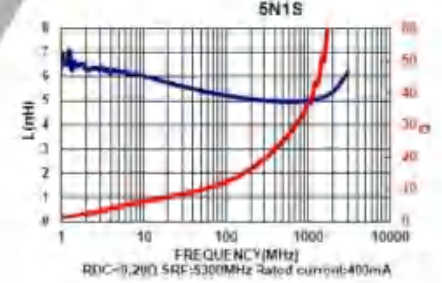
RDC<0.18Ω SRF:5000MHz Rated current:400mA

4N7S



RDC<0.18Ω SRF:6000MHz Rated current:400mA

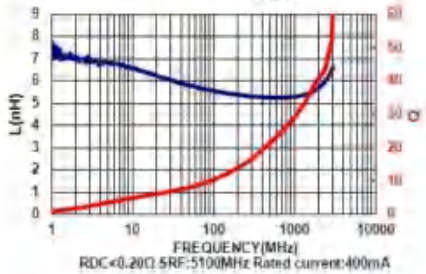
5N1S



RDC<0.20Ω SRF:5300MHz Rated current:400mA

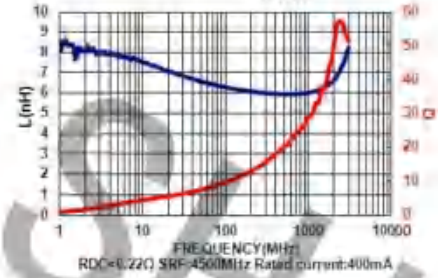
Test Instruments：Agilent E4991A Material/Impedance Analyzer

5N6S



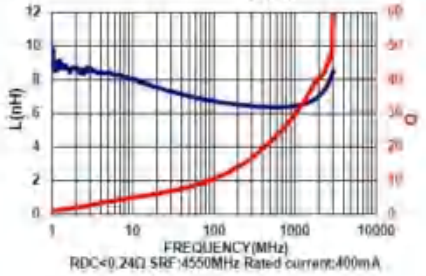
RDC<0.20Ω SRF:5100MHz Rated current:400mA

6N2S



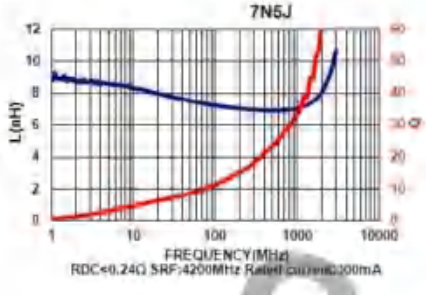
RDC<0.22Ω SRF:4500MHz Rated current:400mA

6N8J



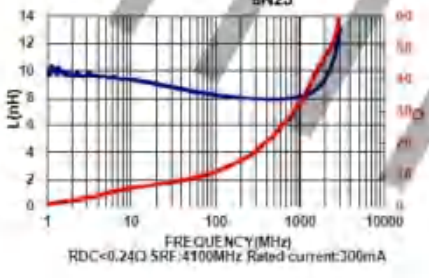
RDC<0.24Ω SRF:4550MHz Rated current:400mA

7N5J



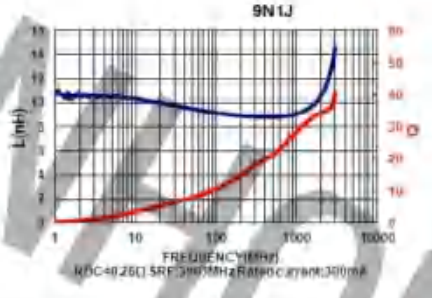
RDC<0.24Ω SRF:4200MHz Rated current:300mA

8N2J



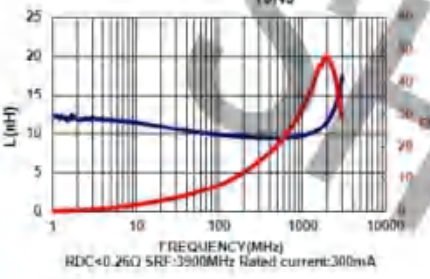
RDC<0.24Ω SRF:4100MHz Rated current:300mA

9N1J



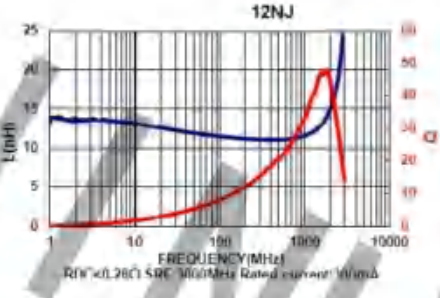
RDC<0.26Ω SRF:3900MHz Rated current:300mA

10NJ



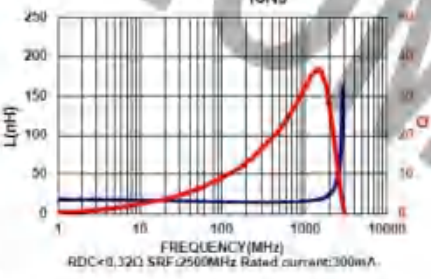
RDC<0.26Ω SRF:3900MHz Rated current:300mA

12NJ



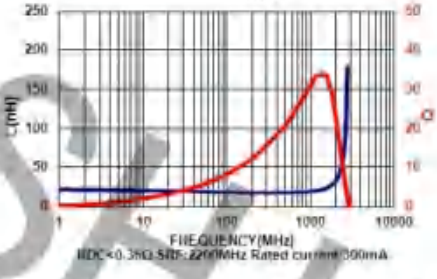
RDC<0.26Ω SRF:3900MHz Rated current:300mA

15NJ



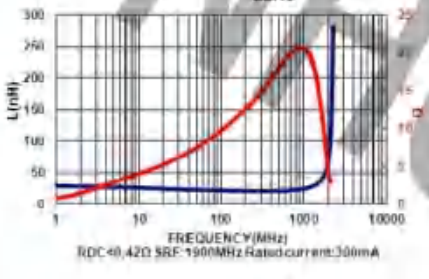
RDC<0.32Ω SRF:2500MHz Rated current:300mA

18NJ



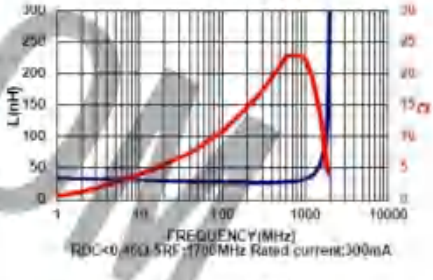
RDC<0.36Ω SRF:2200MHz Rated current:300mA

22NJ



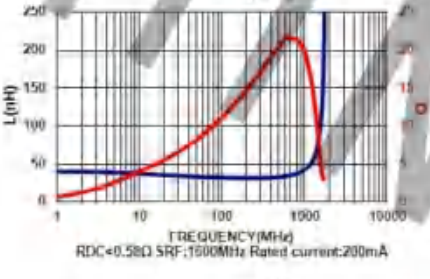
RDC<0.42Ω SRF:1900MHz Rated current:300mA

27NJ



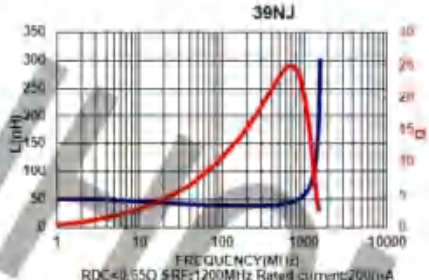
RDC<0.46Ω SRF:1700MHz Rated current:300mA

33NJ



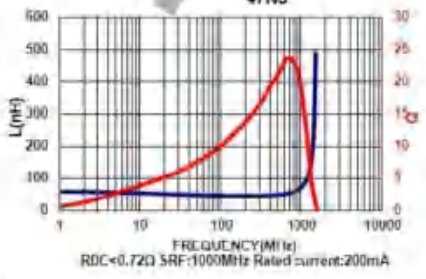
RDC<0.58Ω SRF:1500MHz Rated current:200mA

39NJ



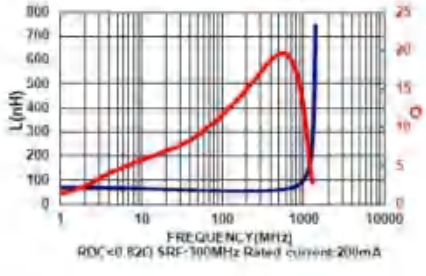
RDC<0.65Ω SRF:1200MHz Rated current:200mA

47NJ



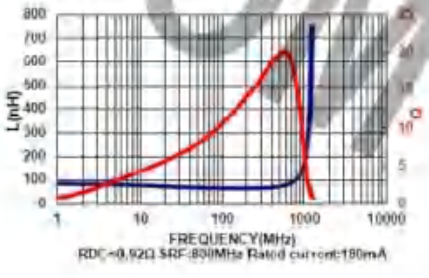
RDC<0.72Ω SRF:1000MHz Rated current:200mA

56NJ



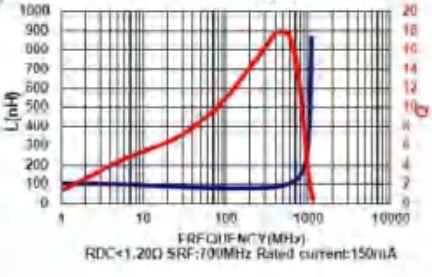
RDC<0.82Ω SRF:900MHz Rated current:200mA

68NJ



RDC<0.92Ω SRF:800MHz Rated current:180mA

82NJ



RDC<1.20Ω SRF:700MHz Rated current:150mA

SMD Ceramic multilayer chip inductors

AIML0402CE Seires



The 0402CE Series is a type of ceramic chip inductor produced usir the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 0402/0603 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 15 nH.

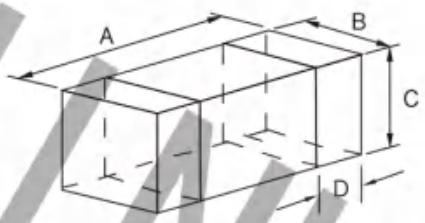
Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

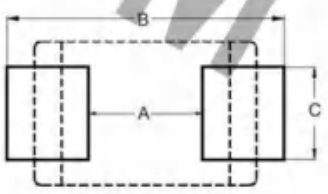
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0402C	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm

TYPE	A	B	C
AIML0402C	0.4	1.2 ~ 1.4	0.5

SHINHOM SHINHOM SHINHOM

Electrical Characteristics

Part Number AIML0402CE-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
1N0☐	1.0	±0.3nH	100	8	10000	0.07	400
1N2☐	1.2	±0.3nH	100	8	6000	0.10	400
1N5☐	1.5	±0.3nH	100	8	6000	0.10	400
1N6☐	1.6	±0.3nH	100	8	6000	0.10	400
1N8☐	1.8	±0.3nH	100	8	6000	0.10	400
2N0☐	2.0	±0.3nH	100	8	6000	0.12	400
2N2☐	2.2	±0.3nH	100	8	6000	0.15	400
2N4☐	2.4	±0.3nH	100	8	6000	0.15	400
2N7☐	2.7	±0.3nH	100	8	6000	0.15	400
3N0☐	3.0	±0.3nH	100	8	6000	0.15	400
3N3☐	3.3	±0.3nH	100	8	6000	0.15	400
3N6☐	3.6	±0.3nH	100	8	6000	0.15	400
3N9☐	3.9	±0.3nH	100	8	6000	0.19	400
4N3☐	4.3	±0.3nH	100	8	6000	0.20	400
4N7☐	4.7	±0.3nH	100	8	6000	0.20	400
5N1☐	5.1	±0.3nH	100	8	6000	0.20	400
5N6☐	5.6	±0.3nH	100	8	5300	0.20	400
6N2☐	6.2	5	100	8	4300	0.25	400
6N8☐	6.8	5	100	8	4200	0.25	400
7N5☐	7.5	5	100	8	3900	0.25	400
8N2☐	8.2	5	100	8	3600	0.30	300
9N1☐	9.1	5	100	8	3400	0.34	300
10N☐	10	5	100	8	3200	0.35	300
12N☐	12	5	100	8	2800	0.35	300
15N☐	15	5	100	8	2300	0.46	300

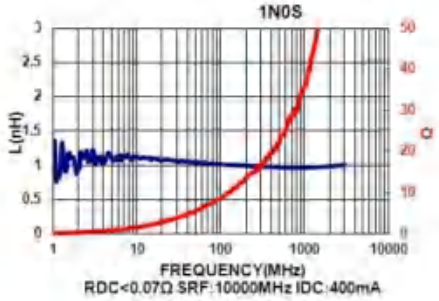
Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.55nH
- Measure Equipment：
  L & Q：Agilent E4991A+Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B or CHEN HWA 502

SHINHOM SHINHOM SHINHOM

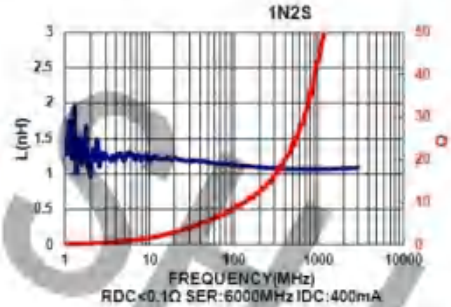
Test Instruments：Agilent E4991A Material/Impedance Analyzer

1N0S



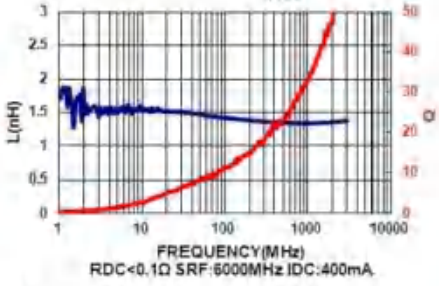
RDC<0.07Ω SRF:10000MHz IDC:400mA

1N2S



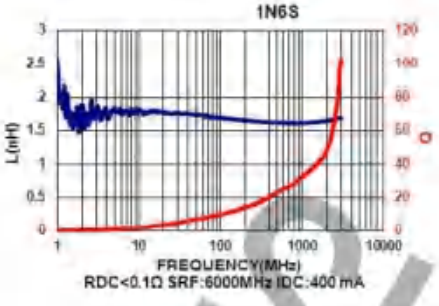
RDC<0.1Ω SER:6000MHz IDC:400mA

1N5S



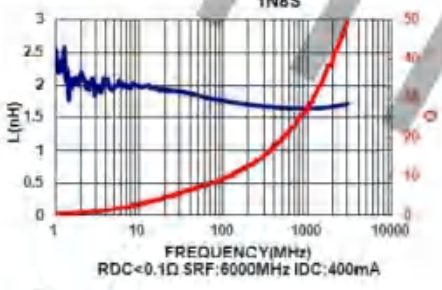
RDC<0.1Ω SRF:6000MHz IDC:400mA

1N6S



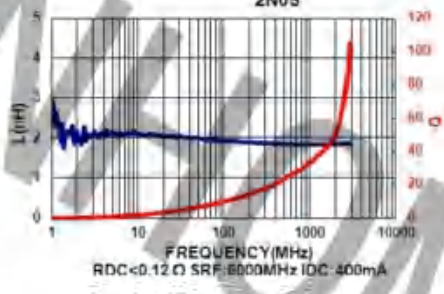
RDC<0.1Ω SRF:6000MHz IDC:400 mA

1N8S



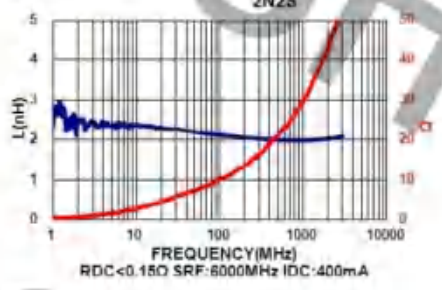
RDC<0.1Ω SRF:6000MHz IDC:400mA

2N0S



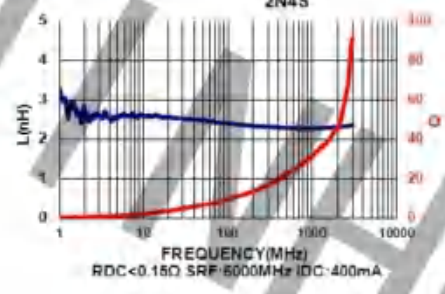
RDC<0.12Ω SRF:6000MHz IDC:400mA

2N2S



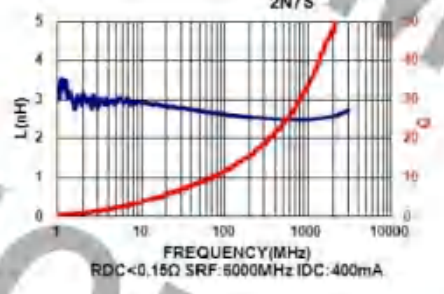
RDC<0.15Ω SRF:6000MHz IDC:400mA

2N4S



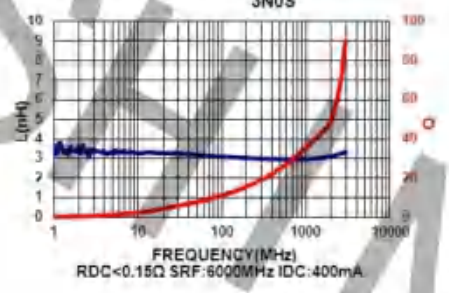
RDC<0.15Ω SRF:6000MHz IDC:400mA

2N7S



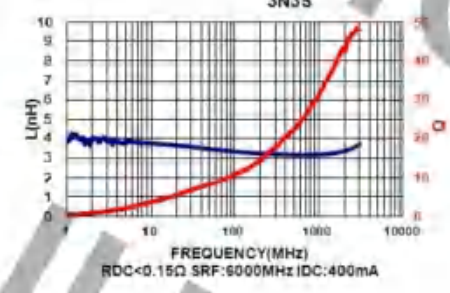
RDC<0.15Ω SRF:6000MHz IDC:400mA

3N0S



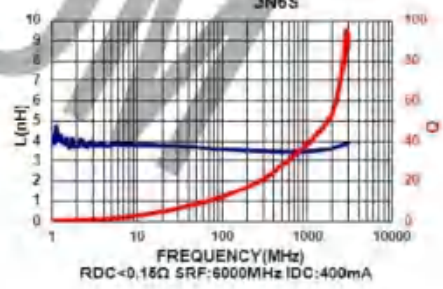
RDC<0.15Ω SRF:6000MHz IDC:400mA

3N3S



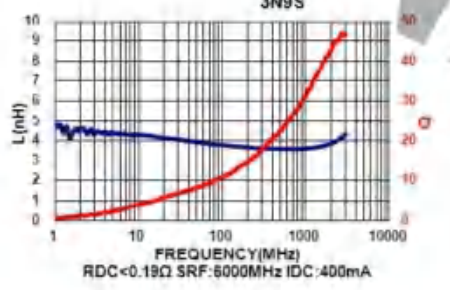
RDC<0.15Ω SRF:6000MHz IDC:400mA

3N6S



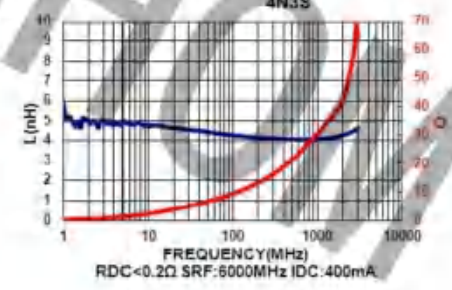
RDC<0.15Ω SRF:6000MHz IDC:400mA

3N9S



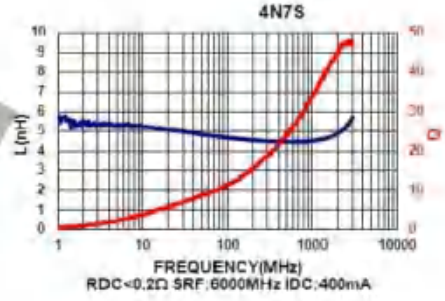
RDC<0.19Ω SRF:6000MHz IDC:400mA

4N3S



RDC<0.2Ω SRF:6000MHz IDC:400mA

4N7S

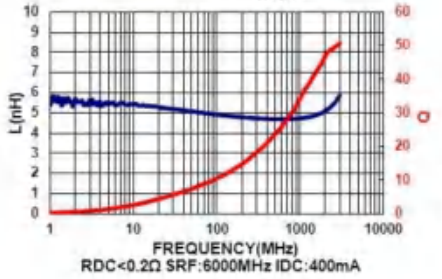


RDC<0.2Ω SRF:6000MHz IDC:400mA

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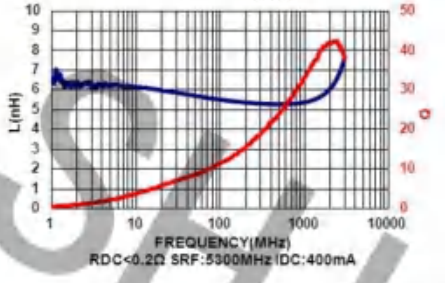
Test Instruments：Agilent E4991A Material/Impedance Analyzer

5N1S



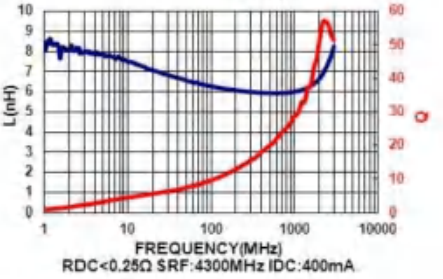
RDC<0.2Ω SRF:6000MHz IDC:400mA

5N6S



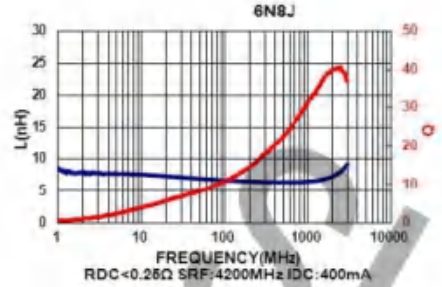
RDC<0.2Ω SRF:5300MHz IDC:400mA

6N2J



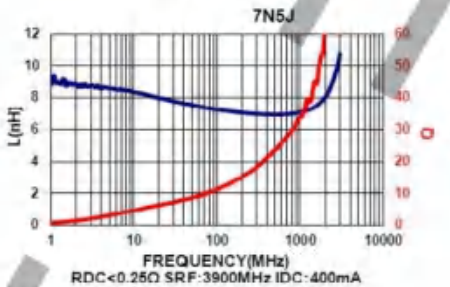
RDC<0.25Ω SRF:4300MHz IDC:400mA

6N8J



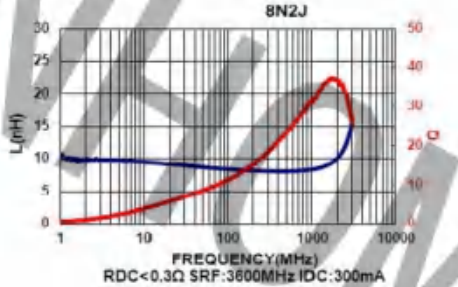
RDC<0.25Ω SRF:4200MHz IDC:400mA

7N5J



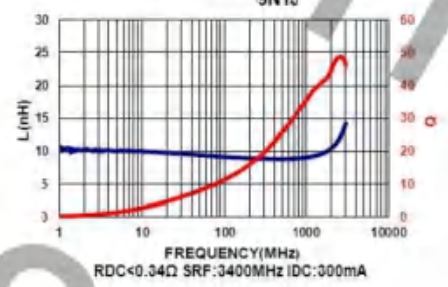
RDC<0.25Ω SRF:3900MHz IDC:400mA

8N2J



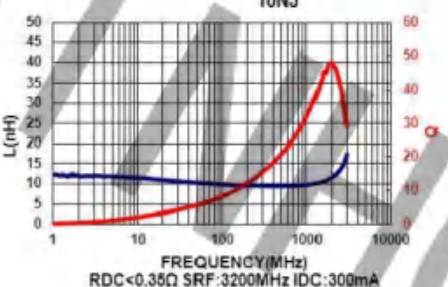
RDC<0.3Ω SRF:3600MHz IDC:300mA

9N1J



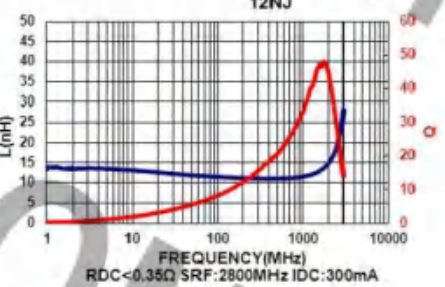
RDC<0.34Ω SRF:3400MHz IDC:300mA

10NJ



RDC<0.35Ω SRF:3200MHz IDC:300mA

12NJ



RDC<0.35Ω SRF:2800MHz IDC:300mA

SHINHOM

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0603C SERIES



FEATURES:

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

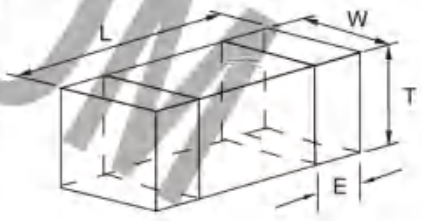
Part Number	L(nH) ±10%	Q Min	LQ Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603C-1N0S	1.0±0.3	8	100	10000	0.05	500
AIML0603C-1N2S	1.2±0.3	8	100	10000	0.10	500
AIML0603C-1N5S	1.5±0.3	8	100	10000	0.10	400
AIML0603C-1N8S	1.8±0.3	8	100	9800	0.12	400
AIML0603C-2N2S	2.2±0.3	8	100	7600	0.20	400
AIML0603C-2N7S	2.7±0.3	8	100	7000	0.20	400
AIML0603C-3N3S	3.3±0.3	8	100	6200	0.20	400
AIML0603C-3N9S	3.9±0.3	8	100	5600	0.25	400
AIML0603C-4N7S	4.7±0.3	8	100	4800	0.30	400
AIML0603C-5N6S	5.6±0.3	8	100	4600	0.30	400
AIML0603C-6N8J	6.8±5%	8	100	4200	0.35	400
AIML0603C-8N2J	8.2±5%	8	100	3600	0.35	400
AIML0603C-10NJ	10±5%	8	100	3200	0.40	300
AIML0603C-12NJ	12±5%	8	100	2800	0.40	300
AIML0603C-15NJ	15±5%	8	100	2600	0.45	300
AIML0603C-18NJ	18±5%	8	100	2400	0.60	300
AIML0603C-22NJ	22±5%	8	100	2000	0.60	300
AIML0603C-27NJ	27±5%	8	100	1900	0.80	300
AIML0603C-33NJ	33±5%	8	100	1600	0.80	300
AIML0603C-39NJ	39±5%	8	100	1400	1.00	300
AIML0603C-47NJ	47±5%	8	100	1200	1.00	200
AIML0603C-56NJ	56±5%	8	100	1000	1.00	200
AIML0603C-68NJ	68±5%	8	100	900	1.00	200
AIML0603C-82NJ	82±5%	8	100	800	1.00	200
AIML0603C-R10J	100±5%	8	100	700	1.40	200
AIML0603C-R12J	120±5%	8	50	600	1.60	150
AIML0603C-R15J	150±5%	8	50	500	1.80	150
AIML0603C-R18J	180±5%	8	50	500	1.80	150
AIML0603C-R22J	220±5%	8	50	350	2.40	150
AIML0603C-R27J	270±5%	8	50	350	2.60	150
AIML0603C-R33J	330±5%	8	50	350	2.80	150
AIML0603C-R39K	390±10%	8	50	300	3.20	150
AIML0603C-R43K	430±10%	8	50	280	3.40	150
AIML0603C-R47K	470±10%	8	50	250	3.60	150

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8720C
- Solderability:90% of the terminal
  Electrode shall be covered
  Preheat:@ 260℃±5℃ for 160 seconds
  Solder:H63AA Eutectic Solder
  Flux:Rosin,Dip for 5 seconds ±1 second
- Thermal Shock: Inductance shall be
  Within ±5% of imitial value
  and Q shall be within ±30% of initial value
  When temperaturs is -40℃ and +85℃ for 30
  Min.for each 100 cycles
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -40℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.6±0.2
W	0.8±0.2
T	0.8±0.2
E	0.3±0.2

SHINHOM

SMD Ceramic multilayer chip inductors

AIML0603CE Seires



The 0603CE Series is a type of ceramic chip inductor produced usir the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

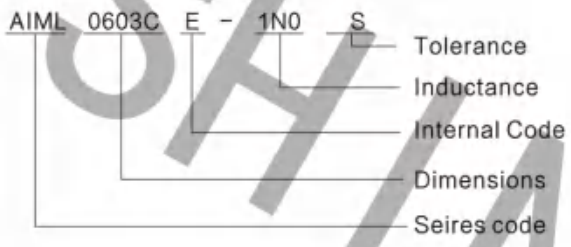
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 0402/0603 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 390 nH.

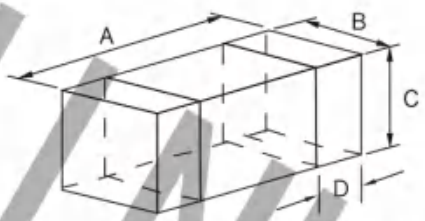
Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

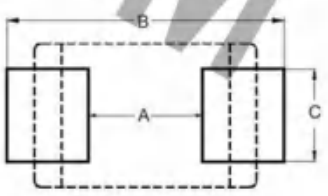
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
AIML0603C	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

Dimensions in mm

TYPE	A	B	C
AIML0603C	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8

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Electrical Characteristics

Part Number AIML0603CE-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
1N0S	1.0	±0.3nH	100	8	10000	0.10	600
1N2S	1.2	±0.3nH	100	8	10000	0.10	600
1N5S	1.5	±0.3nH	100	8	8000	0.10	600
1N6S	1.6	±0.3nH	100	8	8000	0.10	600
1N8S	1.8	±0.3nH	100	8	8000	0.10	600
2N2S	2.2	±0.3nH	100	8	7200	0.10	600
2N7S	2.7	±0.3nH	100	10	6200	0.10	600
3N0S	3.0	±0.3nH	100	10	5200	0.12	600
3N3□	3.3	±0.3nH/10	100	10	5200	0.12	600
3N6S	3.6	±0.3nH	100	10	5000	0.14	600
3N9□	3.9	±0.3nH/10	100	10	5000	0.14	600
4N3□	4.3	±0.3nH/10	100	10	4750	0.16	600
4N7□	4.7	±0.3nH /10	100	10	4750	0.16	600
5N1□	5.1	±0.3nH /10	100	10	4100	0.18	600
5N6□	5.6	±0.3nH/10	100	10	4100	0.18	600
6N2□	6.2	5 / 10	100	10	3750	0.22	600
6N8□	6.8	5 / 10	100	10	3750	0.22	600
7N5□	7.5	5 / 10	100	10	3300	0.24	600
8N2□	8.2	5 / 10	100	10	3300	0.24	600
10N□	10	5 / 10	100	12	3000	0.26	600
12N□	12	5 / 10	100	12	2600	0.28	600
15N□	15	5 / 10	100	12	2500	0.32	600
16N□	16	5 / 10	100	12	2400	0.35	600
18N□	18	5 / 10	100	12	2400	0.35	600
22N□	22	5 / 10	100	12	2000	0.40	500
27N□	27	5 / 10	100	12	1900	0.45	500
33N□	33	5 / 10	100	12	1600	0.55	400
39N□	39	5 / 10	100	12	1400	0.60	400
47N□	47	5 / 10	100	12	1300	0.70	400
56N□	56	5 / 10	100	12	1100	0.75	400
62N□	62	5 / 10	100	12	1050	0.85	400
68N□	68	5 / 10	100	12	1050	0.85	400
75N□	75	5 / 10	100	12	900	1.00	300
82N□	82	5 / 10	100	12	900	1.00	300

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment：

  L & Q：Agilent E4991A+Agilent 16197A

  SRF：HP8753D

  RDC：HP4338B or CHEN HWA 502

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Electrical Characteristics

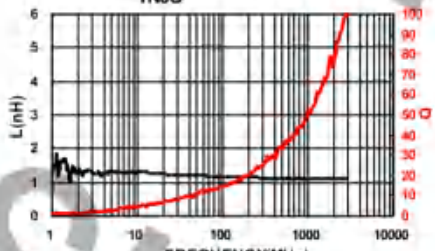
Part Number AIML0603CE-	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	IDC (mA) Max
R10□	100	5 / 10	100	12	770	1.20	300
R12□	120	5 / 10	50	8	650	1.30	300
R15□	150	5 / 10	50	8	550	1.70	250
R18□	180	5 / 10	50	8	520	1.90	250
R22□	220	5 / 10	50	8	500	2.00	250
R27□	270	5 / 10	50	8	470	2.20	150
R33□	330	5 / 10	50	8	320	2.80	100
R39□	390	5 / 10	50	8	300	3.00	100

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment :
  L & Q : Agilent E4991A+Agilent 16197A
  SRF : HP8753D
  RDC : HP4338B or CHEN HWA 502

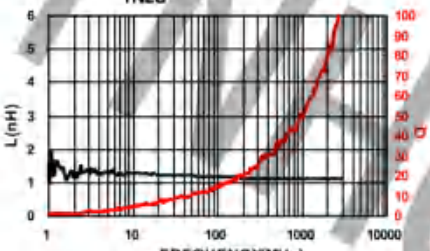
Test Instruments : Agilent E4991A Material/Impedance Analyzer

1N0S



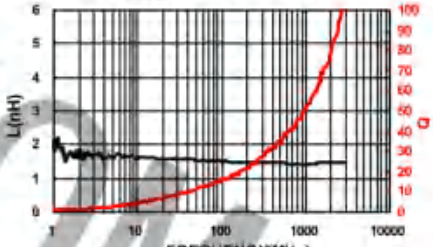
RDC<0.1Ω SRF:10000MHz IDC:600mA

1N2S



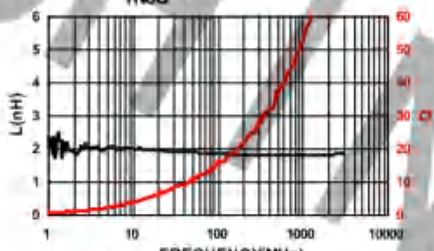
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1N5S



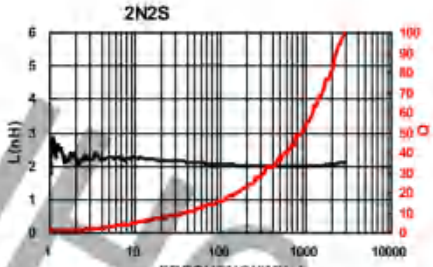
RDC<0.1Ω SRF:8000MHz IDC:600mA

1N8S



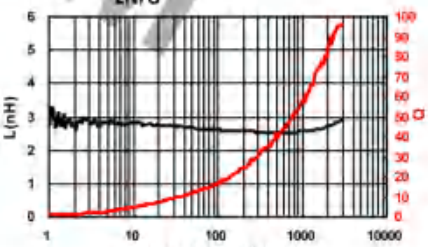
RDC<0.1Ω SRF:8000MHz IDC:600mA

2N2S



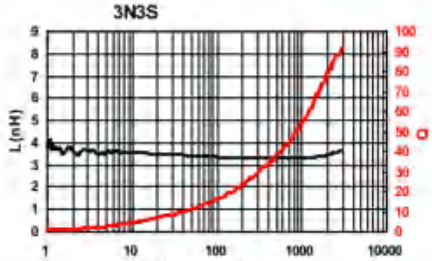
RDC<0.1Ω SRF:7200MHz IDC:600mA

2N7S



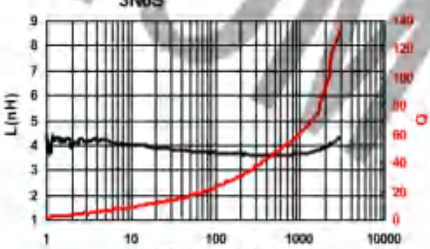
RDC<0.10Ω SRF:6200MHz IDC:600mA

3N3S



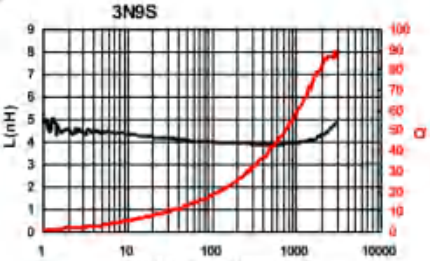
RDC<0.12Ω SRF:5200MHz IDC:600mA

3N6S



RDC<0.14Ω SRF:5000MHz IDC:600mA

3N9S

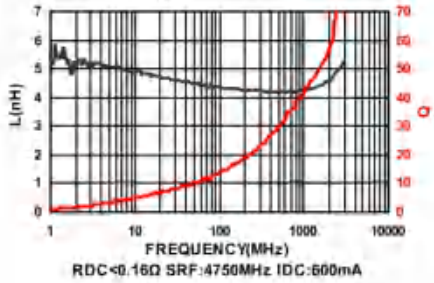


RDC<0.14Ω SRF:5000MHz IDC:600mA

SHINHOM

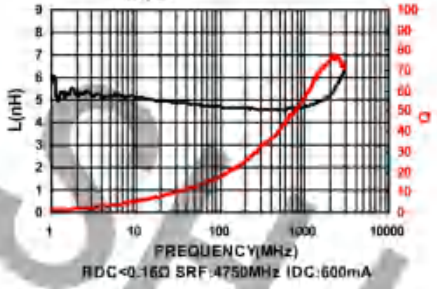
Test Instruments：Agilent E4991A Material/Impedance Analyzer

4N3S



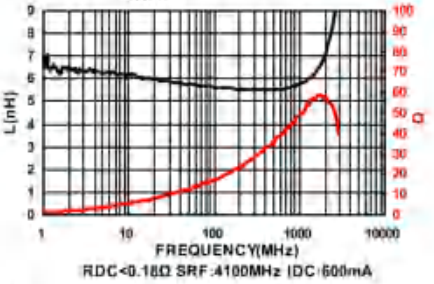
RDC<0.16Ω SRF:4750MHz IDC:600mA

4N7S



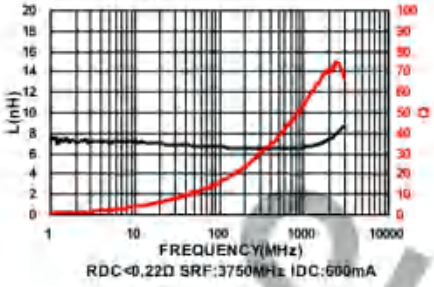
RDC<0.16Ω SRF:4750MHz IDC:600mA

5N6S



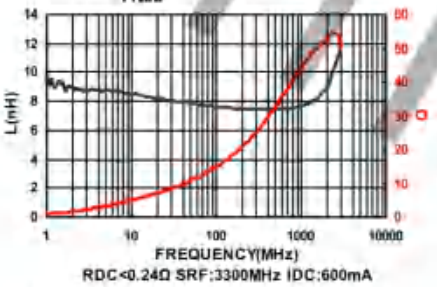
RDC<0.18Ω SRF:4100MHz IDC:600mA

6N8J



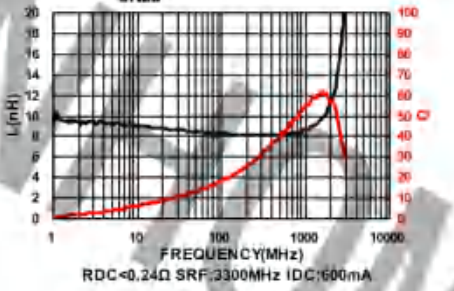
RDC<0.22Ω SRF:3750MHz IDC:600mA

7N5J



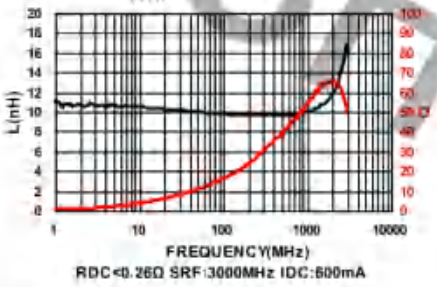
RDC<0.24Ω SRF:3300MHz IDC:600mA

8N2J



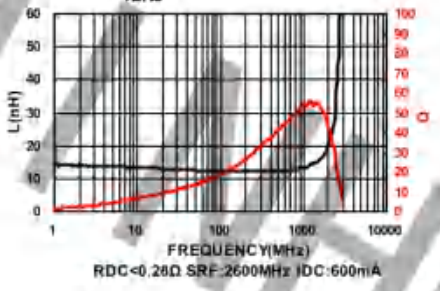
RDC<0.24Ω SRF:3300MHz IDC:600mA

10NJ



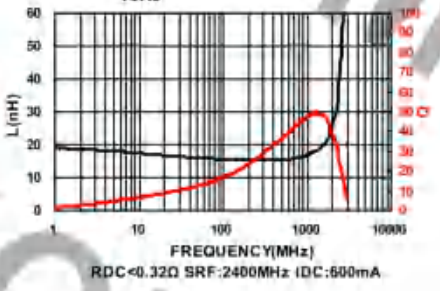
RDC<0.26Ω SRF:3000MHz IDC:600mA

12NJ



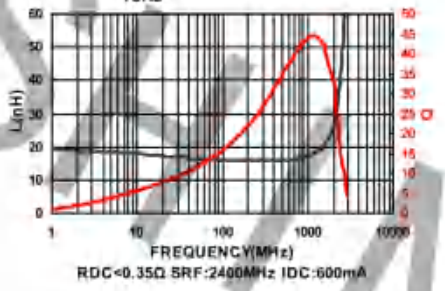
RDC<0.28Ω SRF:2600MHz IDC:600mA

15NJ



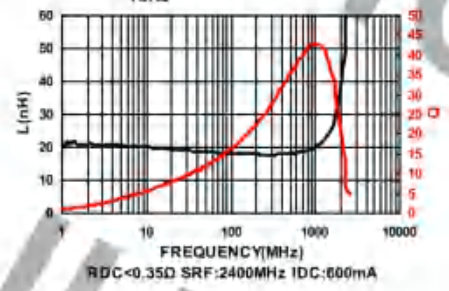
RDC<0.32Ω SRF:2400MHz IDC:600mA

16NJ



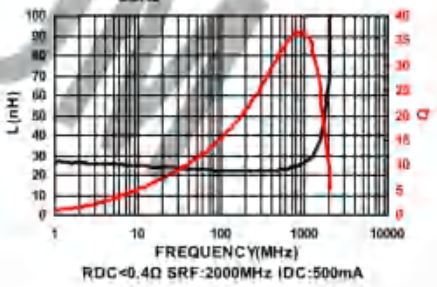
RDC<0.35Ω SRF:2400MHz IDC:600mA

18NJ



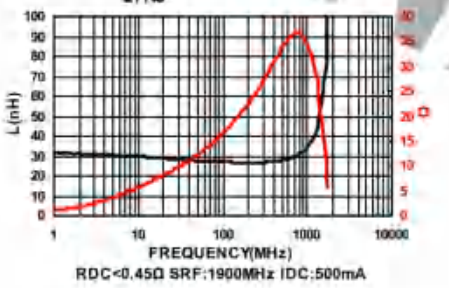
RDC<0.35Ω SRF:2400MHz IDC:600mA

22NJ



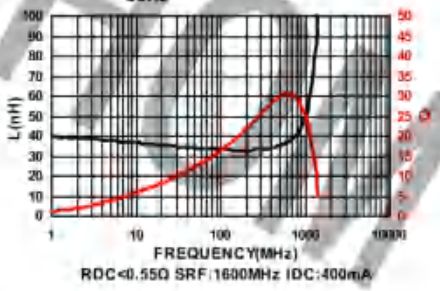
RDC<0.4Ω SRF:2000MHz IDC:500mA

27NJ



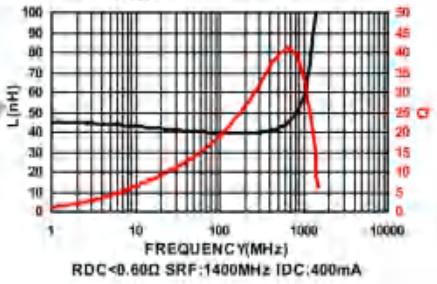
RDC<0.45Ω SRF:1900MHz IDC:500mA

33NJ



RDC<0.55Ω SRF:1600MHz IDC:400mA

39NJ

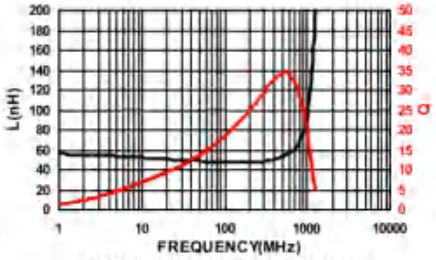


RDC<0.60Ω SRF:1400MHz IDC:400mA

SHINHOM

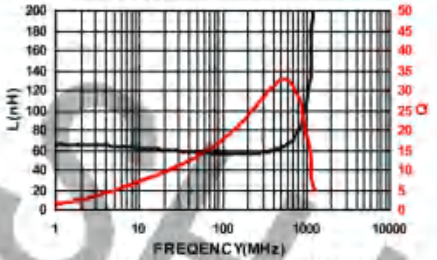
Test Instruments：Agilent E4991A Material/Impedance Analyzer

47NJ



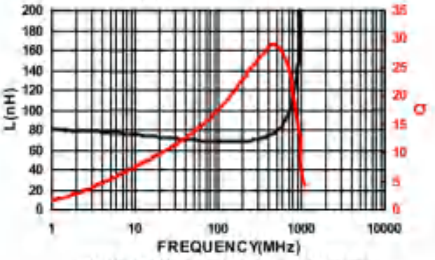
RDC<0.7Ω SRF:1300MHz IDC:400mA

56NJ



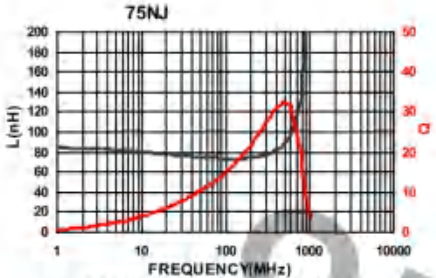
RDC<0.75Ω SRF:1100MHz IDC:400mA

68NJ



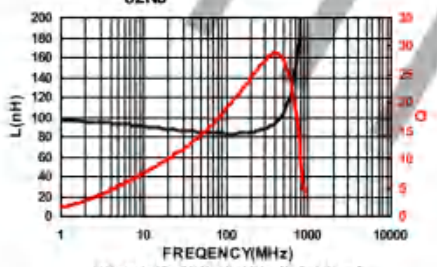
RDC<0.85Ω SRF:1050MHz IDC:400mA

75NJ



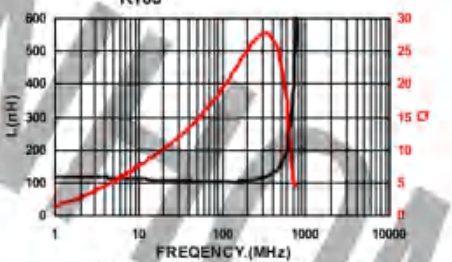
RDC<1.0Ω SRF:900MHz IDC:300mA

82NJ



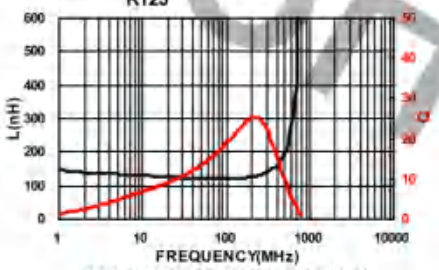
RDC<1.0Ω SRF:900MHz IDC:300mA

R10J



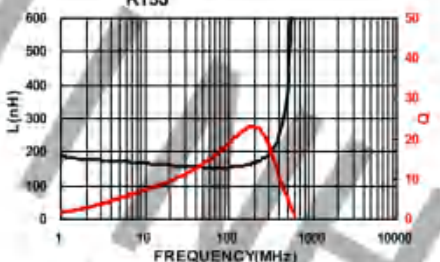
RDC<1.20Ω SRF:770MHz IDC:300mA

R12J



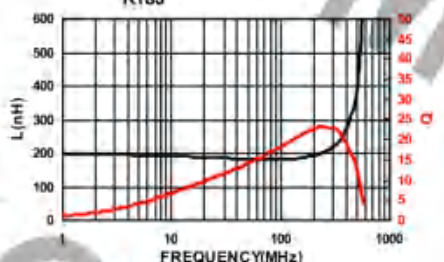
RDC<1.30 Ω SRF:650MHz IDC:300mA

R15J



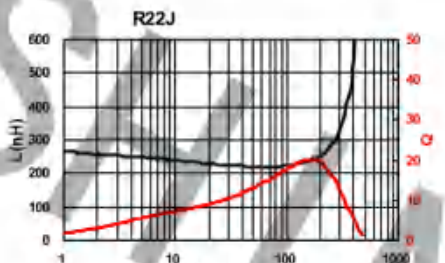
RDC<1.70 Ω SRF:550MHz IDC:250mA

R18J



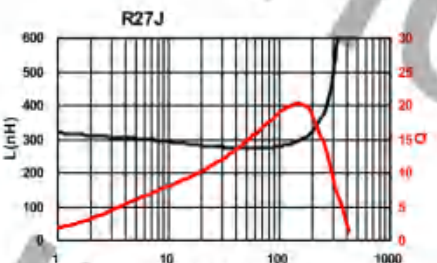
RDC<1.90 Ω SRF:520MHz IDC:250mA

R22J



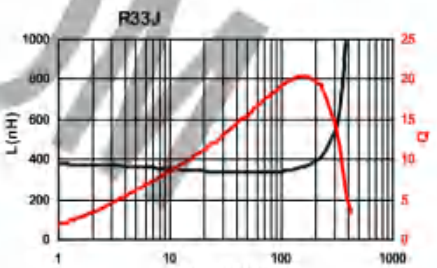
RDC<2.00 Ω SRF:500MHz IDC:250mA

R27J



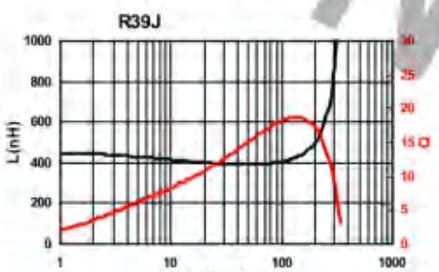
RDC<2.20 Ω SRF:470MHz IDC:150mA

R33J



RDC<2.8 Ω SRF:320MHz IDC:100mA

R39J



RDC<3.0 Ω SRF:300MHz IDC:100mA

SHINHOM

SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

AIML-0805C SERIES



FEATURES:

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

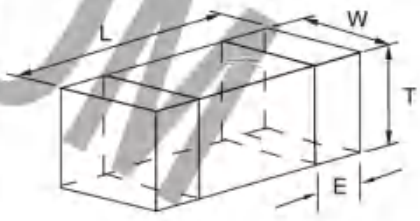
Part Number	L(nH) ±10%	Q Min	L,Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805C-1N5S	1.5±0.3	8	100	6000	0.10	600
AIML0805C-1N8S	1.8±0.3	8	100	6000	0.10	600
AIML0805C-2N2S	2.2±0.3	8	100	6000	0.10	600
AIML0805C-2N7S	2.7±0.3	8	100	6000	0.10	600
AIML0805C-3N3S	3.3±0.3	8	100	6000	0.13	600
AIML0805C-3N9S	3.9±0.3	8	100	5400	0.15	600
AIML0805C-4N7S	4.7±0.3	8	100	4500	0.20	400
AIML0805C-5N6S	5.6±0.3	8	100	4000	0.23	400
AIML0805C-6N8J	6.8±5%	8	100	3650	0.25	400
AIML0805C-8N2J	8.2±5%	8	100	3000	0.28	400
AIML0805C-10NJ	10±5%	8	100	2500	0.30	300
AIML0805C-12NJ	12±5%	8	100	2450	0.35	300
AIML0805C-15NJ	15±5%	8	100	2000	0.40	300
AIML0805C-18NJ	18±5%	8	100	1750	0.45	300
AIML0805C-22NJ	22±5%	8	100	1700	0.50	300
AIML0805C-27NJ	27±5%	8	100	1550	0.55	300
AIML0805C-33NJ	33±5%	8	100	1350	0.60	300
AIML0805C-39NJ	39±5%	8	100	1300	0.70	300
AIML0805C-47NJ	47±5%	8	100	1200	0.80	300
AIML0805C-56NJ	56±5%	8	100	1150	0.80	300
AIML0805C-68NJ	68±5%	8	100	1000	0.85	300
AIML0805C-82NJ	82±5%	8	100	850	0.90	300
AIML0805C-R10J	100±5%	8	100	600	1.00	300
AIML0805C-R12J	120±5%	8	50	500	1.20	300
AIML0805C-R15K	150±10%	8	50	500	1.50	300
AIML0805C-R18K	180±10%	8	50	400	1.80	300
AIML0805C-R22K	220±10%	8	50	350	1.80	300
AIML0805C-R27K	270±10%	8	50	350	1.80	300
AIML0805C-R33K	330±10%	8	50	300	2.00	300
AIML0805C-R39K	390±10%	8	50	250	2.00	300
AIML0805C-R47K	470±10%	8	50	200	2.00	300

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8720C
- Solderability:90% of the terminal
  Electrode shall be covered
  Preheat:@ 260℃±5℃ for 160 seconds
  Solder:H63AA Eutectic Solder
  Flux:Rosin,Dip for 5 seconds ±1 second
- Thermal Shock: Inductance shall be
  Within ±5% of imitial value
  and Q shall be within ±30% of initial value
  When temperaturs is -40℃ and +85℃ for 30
  Min.for each 100 cycles
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -40℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

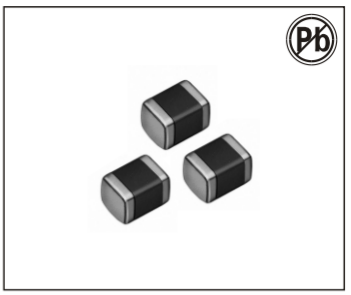


L	2.0±0.2
W	1.2±0.2
T	0.9±0.2
E	0.5±0.3

SHINHOM REVIEW

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0402 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

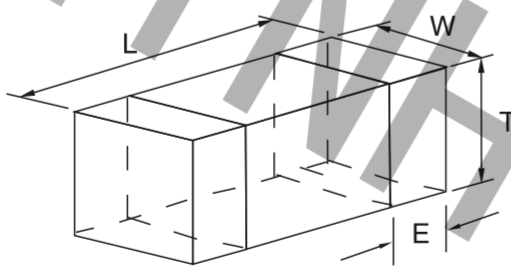
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0402-47NK	0.047	10	50	220	0.45	25
AIML0402-56NK	0.056	10	50	210	0.45	25
AIML0402-68NK	0.068	10	50	210	0.45	25
AIML0402-82NK	0.082	10	50	200	0.45	25
AIML0402-R10K	0.1	15	25	200	0.7	25
AIML0402-R12K	0.12	15	25	165	0.7	25
AIML0402-R15K	0.15	15	25	140	0.8	25
AIML0402-R18K	0.18	15	25	120	0.8	25
AIML0402-R22K	0.22	15	25	110	1.0	25
AIML0402-R27K	0.27	15	25	95	1.2	25
AIML0402-R33K	0.33	15	25	85	1.2	25
AIML0402-R39K	0.39	15	10	70	0.6	20
AIML0402-R47K	0.47	15	10	68	0.7	20
AIML0402-R56K	0.56	15	10	55	0.8	20
AIML0402-R68K	0.68	15	10	50	0.9	20
AIML0402-R82K	0.82	15	10	45	0.9	18
AIML0402-1R0K	1.0	20	10	40	0.9	15
AIML0402-1R2K	1.2	20	10	35	1.2	15

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

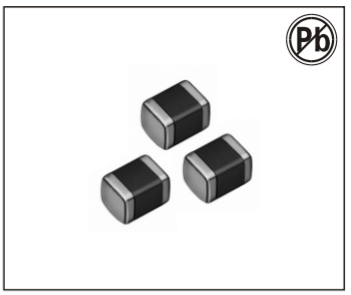


L	1.0±0.15
W	0.5±0.15
T	0.5±0.15
E	0.25±0.1

SHINHOM

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0603 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

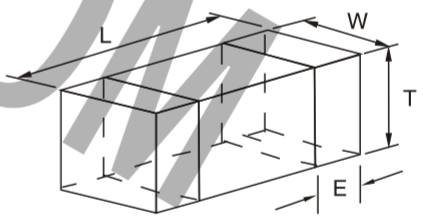
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603-47NK	0.047	15	50	260	0.20	50
AIML0603-56NK	0.056	15	50	260	0.20	50
AIML0603-68NK	0.068	15	50	250	0.20	50
AIML0603-82NK	0.082	15	50	245	0.20	50
AIML0603-R10K	0.10	20	25	240	0.25	50
AIML0603-R12K	0.12	20	25	205	0.30	50
AIML0603-R15K	0.15	20	25	180	0.30	50
AIML0603-R18K	0.18	20	25	165	0.30	50
AIML0603-R22K	0.22	20	25	150	0.40	50
AIML0603-R27K	0.27	20	25	136	0.45	50
AIML0603-R33K	0.33	20	25	125	0.50	50
AIML0603-R39K	0.39	20	25	110	0.60	50
AIML0603-R47K	0.47	20	25	105	0.70	50
AIML0603-R56K	0.56	20	25	95	0.70	50
AIML0603-R68K	0.68	20	25	90	0.90	50
AIML0603-R82K	0.82	20	25	85	1.00	50
AIML0603-1R0K	1.0	25	10	75	0.50	25
AIML0603-1R2K	1.2	25	10	65	0.55	25
AIML0603-1R5K	1.5	25	10	60	0.70	25
AIML0603-1R8K	1.8	25	10	55	0.75	25
AIML0603-2R2K	2.2	25	10	50	0.80	25
AIML0603-2R7K	2.7	25	10	45	0.90	15
AIML0603-3R3K	3.3	25	10	40	1.00	15
AIML0603-3R9K	3.9	25	10	35	1.30	15
AIML0603-4R7K	4.7	25	4	33	1.50	15
AIML0603-5R6K	5.6	12	4	22	1.55	5
AIML0603-6R8K	6.8	12	4	20	1.55	5
AIML0603-8R2K	8.2	12	4	18	1.65	5
AIML0603-100K	10	20	2	17	1.75	3
AIML0603-120K	12	20	2	15	1.85	3
AIML0603-150M	15 ± 20%	20	1	14	2.50	1
AIML0603-180M	18 ± 20%	20	1	13	2.70	1
AIML0603-220M	22 ± 20%	20	1	12	3.00	1

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃ ± 5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

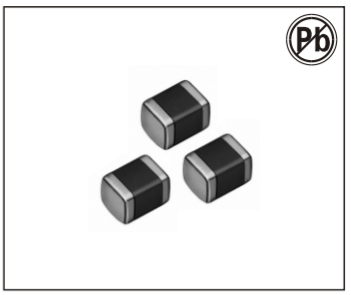


L	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.2

SHINHOM

SURFACE-MOUNT MULTI-LAYER HIHG CURRENT INDUCTORS

AIML-0603H SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC andHigh IDC

COMMON APPLICATIONS:

- Cellular platform DC-DCconverter circuit
- Portable AV equipment(digital camera,DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

ELECTRICAL CHARACTERISTICS:

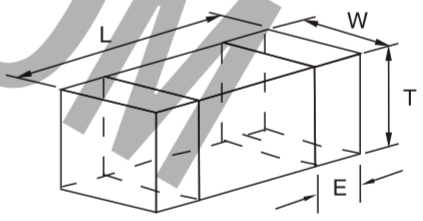
Part Number	L(uH) ±20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603H-47NM	0.047	1	260	0.12	150
AIML0603H-56NM	0.056	1	260	0.12	150
AIML0603H-68NM	0.068	1	250	0.12	150
AIML0603H-82NM	0.082	1	245	0.12	150
AIML0603H-R10M	0.10	1	240	0.15	150
AIML0603H-R12M	0.12	1	205	0.20	150
AIML0603H-R15M	0.15	1	180	0.20	150
AIML0603H-R18M	0.18	1	165	0.20	150
AIML0603H-R22M	0.22	1	150	0.25	150
AIML0603H-R27M	0.27	1	136	0.30	100
AIML0603H-R33M	0.33	1	125	0.30	100
AIML0603H-R39M	0.39	1	110	0.35	100
AIML0603H-R47M	0.47	1	105	0.45	100
AIML0603H-R56M	0.56	1	95	0.45	100
AIML0603H-R68M	0.68	1	90	0.55	100
AIML0603H-R82M	0.82	1	85	0.60	100
AIML0603H-1R0M	1.0	1	75	0.30	150
AIML0603H-1R2M	1.2	1	65	0.30	150
AIML0603H-1R5M	1.5	1	60	0.35	120
AIML0603H-1R8M	1.8	1	55	0.40	120
AIML0603H-2R2M	2.2	1	50	0.50	120
AIML0603H-2R7M	2.7	1	45	0.60	100
AIML0603H-3R3M	3.3	1	40	0.65	100
AIML0603H-3R9M	3.9	1	35	0.70	80
AIML0603H-4R7M	4.7	1	33	0.75	80
AIML0603H-5R6M	5.6	1	22	0.90	60
AIML0603H-6R8M	6.8	1	20	0.90	60
AIML0603H-8R2M	8.2	1	18	1.05	60
AIML0603H-100M	10	1	17	1.15	60
AIML0603H-120M	12	1	15	1.25	60

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

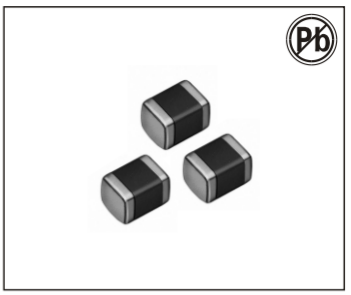


L	1.6±0.2
W	0.8±0.2
T	0.8±0.2
E	0.3±0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0805 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

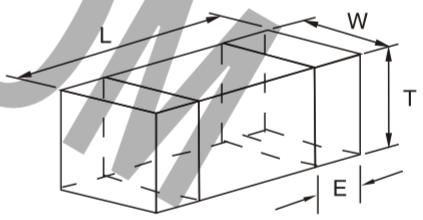
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805-47NK	0.047	25	50	320	0.15	300
AIML0805-56NK	0.056	25	50	320	0.15	300
AIML0805-68NK	0.068	25	50	280	0.20	300
AIML0805-82NK	0.082	25	50	280	0.20	300
AIML0805-R10K	0.10	20	25	235	0.20	250
AIML0805-R12K	0.12	20	25	220	0.25	250
AIML0805-R15K	0.15	20	25	200	0.25	250
AIML0805-R18K	0.18	20	25	185	0.30	250
AIML0805-R22K	0.22	20	25	170	0.30	250
AIML0805-R27K	0.27	20	25	150	0.40	250
AIML0805-R33K	0.33	20	25	145	0.40	250
AIML0805-R39K	0.39	25	25	135	0.50	200
AIML0805-R47K	0.47	25	25	125	0.50	200
AIML0805-R56K	0.56	25	25	115	0.60	150
AIML0805-R68K	0.68	25	25	105	0.65	150
AIML0805-R82K	0.82	25	25	100	0.70	150
AIML0805-1R0K	1.0	35	10	75	0.40	50
AIML0805-1R2K	1.2	35	10	65	0.40	50
AIML0805-1R5K	1.5	35	10	60	0.40	50
AIML0805-1R8K	1.8	35	10	55	0.40	50
AIML0805-2R2K	2.2	35	10	50	0.60	50
AIML0805-2R7K	2.7	35	10	45	0.60	50
AIML0805-3R3K	3.3	35	10	41	0.60	50
AIML0805-3R9K	3.9	35	10	38	0.80	50
AIML0805-4R7K	4.7	35	10	35	0.90	30
AIML0805-5R6K	5.6	30	4	32	1.00	15
AIML0805-6R8K	6.8	30	4	29	1.05	15
AIML0805-8R2K	8.2	30	4	26	1.05	15
AIML0805-100K	10	30	2	24	1.15	15
AIML0805-120K	12	30	2	22	1.15	15
AIML0805-150K	15	25	1	19	1.15	5
AIML0805-180K	18	25	1	18	1.20	5
AIML0805-220K	22	25	1	16	1.20	5
AIML0805-270K	27	25	1	16	1.50	5
AIML0805-330M	33 ± 20%	25	1	16	1.50	5
AIML0805A-390M	39 ± 20%	25	1	16	1.50	5
AIML0805A-470M	47 ± 20%	25	1	15	1.70	5

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃ ± 5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

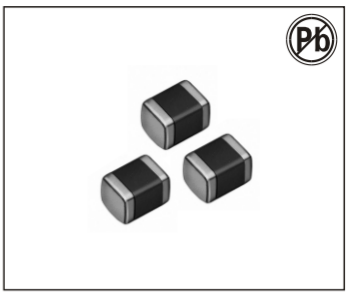


L	2.0 ± 0.2	
W	1.2 ± 0.2	
T	(0805) 0.9 ± 0.2	(0805A) 1.2 ± 0.2
E	0.5 ± 0.3	

SHINHOM

SURFACE–MOUNT MULTI–LAYER HIHG CURRENT INDUCTORS

AIML-0805H SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC andHigh IDC

COMMON APPLICATIONS:

- Cellular platform DC–DCconverter circuit
- Portable AV equipment(digital camera,DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

ELECTRICAL CHARACTERISTICS:

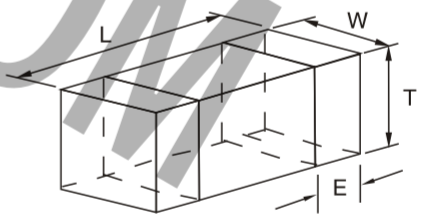
Part Number	L(uH) ±20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805H–47NM	0.047	1	320	0.15	350
AIML0805H–56NM	0.056	1	320	0.15	350
AIML0805H–68NM	0.068	1	280	0.20	350
AIML0805H–82NM	0.082	1	280	0.20	350
AIML0805H–R10M	0.10	1	235	0.20	350
AIML0805H–R12M	0.12	1	220	0.20	350
AIML0805H–R15M	0.15	1	200	0.20	350
AIML0805H–R18M	0.18	1	185	0.25	300
AIML0805H–R22M	0.22	1	170	0.25	300
AIML0805H–R27M	0.27	1	150	0.25	300
AIML0805H–R33M	0.33	1	145	0.25	300
AIML0805H–R39M	0.39	1	135	0.30	250
AIML0805H–R47M	0.47	1	125	0.30	250
AIML0805H–R56M	0.56	1	115	0.36	200
AIML0805H–R68M	0.68	1	105	0.36	200
AIML0805H–R82M	0.82	1	100	0.36	200
AIML0805H–1R0M	1.0	1	75	0.26	220
AIML0805H–1R2M	1.2	1	65	0.26	220
AIML0805H–1R5M	1.5	1	60	0.30	180
AIML0805H–1R8M	1.8	1	55	0.30	180
AIML0805H–2R2M	2.2	1	50	0.36	150
AIML0805H–2R7M	2.7	1	45	0.36	150
AIML0805H–3R3M	3.3	1	41	0.40	120
AIML0805H–3R9M	3.9	1	38	0.40	120
AIML0805H–4R7M	4.7	1	35	0.40	120
AIML0805H–5R6M	5.6	1	32	0.60	100
AIML0805H–6R8M	6.8	1	29	0.60	100
AIML0805H–8R2M	8.2	1	26	0.65	100
AIML0805H–100M	10	1	24	0.65	100
AIML0805H–120M	12	1	22	0.65	100
AIML0805H–150M	15	1	19	0.75	50
AIML0805H–180M	18	1	18	0.75	50
AIML0805H–220M	22	1	16	0.75	50

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q–HP4195A+HP41951
  DCR:VOAC–7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2–3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: –25℃ to +85℃
- Storage Temperature: –25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

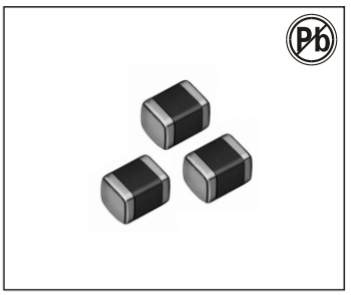


L	2.0±0.2
W	1.2±0.2
T	0.9±0.2
E	0.5±0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER HIHG CURRENT INDUCTORS

AIML-0805UH SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC andHigh IDC

COMMON APPLICATIONS:

- Cellular platform DC-DCconverter circuit
- Portable AV equipment(digital camera,DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

ELECTRICAL CHARACTERISTICS:

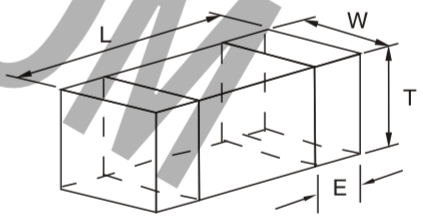
Part Number	L(uH) ±20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805UH-47NM	0.047	1	280	0.10	1100
AIML0805UH-56NM	0.056	1	280	0.10	1100
AIML0805UH-68NM	0.068	1	250	0.15	1100
AIML0805UH-82NM	0.082	1	250	0.15	1100
AIML0805UH-R10M	0.10	1	210	0.15	1100
AIML0805UH-R12M	0.12	1	200	0.15	1100
AIML0805UH-R15M	0.15	1	175	0.15	1100
AIML0805UH-R18M	0.18	1	160	0.15	1100
AIML0805UH-R22M	0.22	1	150	0.15	1100
AIML0805UH-R27M	0.27	1	130	0.15	1100
AIML0805UH-R33M	0.33	1	120	0.15	1100
AIML0805UH-R39M	0.39	1	110	0.15	1100
AIML0805UH-R47M	0.47	1	100	0.15	1100
AIML0805UH-R56M	0.56	1	100	0.36	800
AIML0805UH-R68M	0.68	1	95	0.36	800
AIML0805UH-R82M	0.82	1	90	0.36	800
AIML0805UH-1R0M	1.0	1	75	0.24	800
AIML0805UH-1R2M	1.2	1	65	0.24	800
AIML0805UH-1R5M	1.5	1	60	0.30	700
AIML0805UH-1R8M	1.8	1	55	0.36	600
AIML0805UH-2R2M	2.2	1	50	0.36	600
AIML0805UH-2R7M	2.7	1	45	0.36	600
AIML0805UH-3R3M	3.3	1	41	0.40	350
AIML0805UH-3R9M	3.9	1	38	0.40	350
AIML0805UH-4R7M	4.7	1	35	0.40	350
AIML0805UH-5R6M	5.6	1	32	0.50	250
AIML0805UH-6R8M	6.8	1	29	0.50	250
AIML0805UH-8R2M	8.2	1	26	0.56	250
AIML0805UH-100M	10	1	24	0.70	250
AIML0805UH-120M	12	1	22	0.70	250
AIML0805UH-150M	15	1	19	0.85	100

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

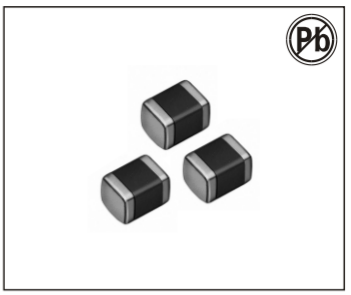


L	2.0±0.2
W	1.2±0.2
T	0.9±0.2
E	0.5±0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1206 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

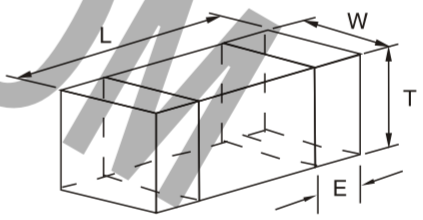
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206-47NK	0.047	30	50	320	0.15	300
AIML1206-56NK	0.056	30	50	320	0.20	300
AIML1206-68NK	0.068	30	50	280	0.25	300
AIML1206-82NK	0.082	30	50	280	0.25	300
AIML1206-R10K	0.10	25	25	235	0.25	250
AIML1206-R12K	0.12	25	25	220	0.25	250
AIML1206-R15K	0.15	25	25	200	0.25	250
AIML1206-R18K	0.18	25	25	185	0.30	250
AIML1206-R22K	0.22	25	25	170	0.30	250
AIML1206-R27K	0.27	25	25	150	0.30	250
AIML1206-R33K	0.33	25	25	145	0.30	250
AIML1206-R39K	0.39	30	25	135	0.50	200
AIML1206-R47K	0.47	30	25	125	0.50	200
AIML1206-R56K	0.56	30	25	115	0.50	150
AIML1206-R68K	0.68	30	25	105	0.50	150
AIML1206-R82K	0.82	30	25	100	0.60	150
AIML1206-1R0K	1.0	35	10	75	0.30	100
AIML1206-1R2K	1.2	35	10	65	0.40	100
AIML1206-1R5K	1.5	35	10	60	0.40	50
AIML1206-1R8K	1.8	35	10	55	0.40	50
AIML1206-2R2K	2.2	35	10	50	0.50	50
AIML1206-2R7K	2.7	35	10	45	0.50	50
AIML1206-3R3K	3.3	35	10	41	0.50	50
AIML1206-3R9K	3.9	35	10	38	0.60	50
AIML1206-4R7K	4.7	35	10	35	0.65	25
AIML1206-5R6K	5.6	35	4	32	0.80	25
AIML1206-6R8K	6.8	35	4	29	0.80	25
AIML1206-8R2K	8.2	35	4	26	0.80	25
AIML1206-100K	10	35	2	24	0.80	25
AIML1206-120K	12	35	2	22	0.90	15
AIML1206-150K	15	30	1	19	1.00	5
AIML1206-180K	18	30	1	18	1.00	5
AIML1206-220K	22	30	1	16	1.20	5
AIML1206-270K	27	30	1	14	1.20	5
AIML1206-330K	33	30	1	13	1.30	5
AIML1206-390K	39	30	1	13	1.30	5
AIML1206A-470K	47	30	1	12	1.60	5
AIML1206A-560M	56 ± 20%	30	1	12	1.80	5
AIML1206A-680M	68 ± 20%	30	1	11	2.00	5
AIML1206A-820M	82 ± 20%	30	1	11	2.40	5
AIML1206A-101M	100 ± 20%	30	1	8	3.00	5

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃ ± 5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

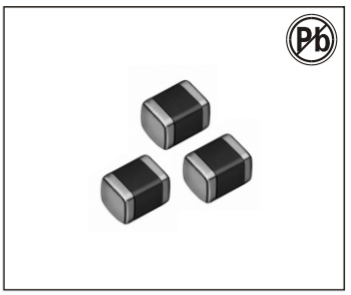


L	3.2 ± 0.2	
W	1.6 ± 0.2	
T	(1206) 0.9 ± 0.2	(1206A) 1.1 ± 0.2
E	0.5 ± 0.3	

SHINHOM

SURFACE-MOUNT MULTI-LAYER HIHG CURRENT INDUCTORS

AIML-1206H SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC andHigh IDC

COMMON APPLICATIONS:

- Cellular platform DC-DCconverter circuit
- Portable AV equipment(digital camera,DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

ELECTRICAL CHARACTERISTICS:

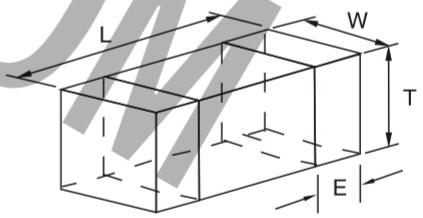
Part Number	L(uH) ±20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206H-47NM	0.047	1	320	0.15	450
AIML1206H-56NM	0.056	1	320	0.15	450
AIML1206H-68NM	0.068	1	280	0.20	450
AIML1206H-82NM	0.082	1	280	0.20	450
AIML1206H-R10M	0.10	1	235	0.20	350
AIML1206H-R12M	0.12	1	220	0.20	350
AIML1206H-R15M	0.15	1	200	0.20	350
AIML1206H-R18M	0.18	1	185	0.20	350
AIML1206H-R22M	0.22	1	170	0.20	350
AIML1206H-R27M	0.27	1	150	0.20	350
AIML1206H-R33M	0.33	1	145	0.20	350
AIML1206H-R39M	0.39	1	135	0.30	220
AIML1206H-R47M	0.47	1	125	0.30	220
AIML1206H-R56M	0.56	1	115	0.30	220
AIML1206H-R68M	0.68	1	105	0.30	220
AIML1206H-R82M	0.82	1	100	0.30	220
AIML1206H-1R0M	1.0	1	75	0.20	250
AIML1206H-1R2M	1.2	1	65	0.20	250
AIML1206H-1R5M	1.5	1	60	0.25	250
AIML1206H-1R8M	1.8	1	55	0.25	250
AIML1206H-2R2M	2.2	1	50	0.30	200
AIML1206H-2R7M	2.7	1	45	0.30	200
AIML1206H-3R3M	3.3	1	41	0.30	200
AIML1206H-3R9M	3.9	1	38	0.35	150
AIML1206H-4R7M	4.7	1	35	0.35	150
AIML1206H-5R6M	5.6	1	32	0.50	100
AIML1206H-6R8M	6.8	1	29	0.50	100
AIML1206H-8R2M	8.2	1	26	0.50	100
AIML1206H-100M	10	1	24	0.50	100
AIML1206H-120M	12	1	22	0.60	100
AIML1206H-150M	15	1	19	0.80	50
AIML1206H-180M	18	1	18	0.80	50
AIML1206H-220M	22	1	16	1.00	50
AIML1206H-270M	27	1	14	1.00	50

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

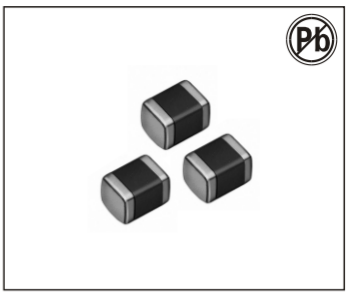


L	3.2±0.2
W	1.6±0.2
T	0.9±0.2
E	0.5±0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER HIHG CURRENT INDUCTORS

AIML-1206UH SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC andHigh IDC

COMMON APPLICATIONS:

- Cellular platform DC-DCconverter circuit
- Portable AV equipment(digital camera,DVD Type)
- Cellular platform(handset Type)
- Memex(computer Type)

ELECTRICAL CHARACTERISTICS:

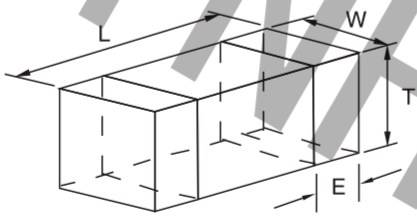
Part Number	L(uH) ±20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1206UH-1R0M	1.0	1	60	0.15	1200
AIML1206UH-1R2M	1.2	1	65	0.15	1200
AIML1206UH-1R5M	1.5	1	60	0.17	1000
AIML1206UH-1R8M	1.8	1	55	0.24	900
AIML1206UH-2R2M	2.2	1	50	0.24	900
AIML1206UH-2R7M	2.7	1	45	0.30	800
AIML1206UH-3R3M	3.3	1	41	0.30	800
AIML1206UH-3R9M	3.9	1	38	0.38	700
AIML1206UH-4R7M	4.7	1	35	0.38	700
AIML1206UH-5R6M	5.6	1	32	0.45	500
AIML1206UH-6R8M	6.8	1	29	0.45	500
AIML1206UH-8R2M	8.2	1	26	0.55	300
AIML1206UH-100M	10	1	24	0.55	300
AIML1206UH-120M	12	1	22	0.55	300
AIML1206UH-150M	15	1	19	0.65	100
AIML1206UH-180M	18	1	18	0.65	100

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

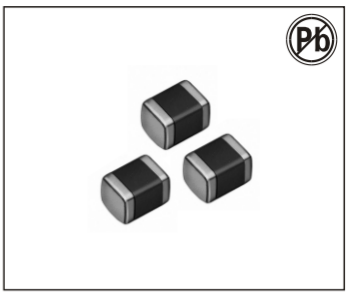


L	3.2±0.2
W	1.6±0.2
T	0.9±0.2
E	0.5±0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1210 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

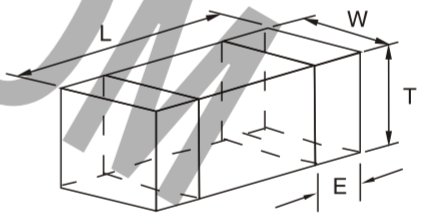
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1210-1R0K	1.0	40	10	70	0.20	600
AIML1210-1R2K	1.2	40	10	70	0.20	600
AIML1210-1R5K	1.5	40	10	70	0.30	500
AIML1210-1R8K	1.8	40	10	70	0.30	500
AIML1210-2R2K	2.2	40	10	50	0.30	500
AIML1210-2R7K	2.7	40	10	50	0.30	500
AIML1210-3R3K	3.3	40	10	50	0.40	500
AIML1210-3R9K	3.9	40	10	30	0.40	500
AIML1210-4R7K	4.7	40	10	30	0.50	500
AIML1210-5R6K	5.6	35	4	30	0.60	450
AIML1210-6R8K	6.8	35	4	20	0.60	450
AIML1210-8R2K	8.2	35	4	20	0.70	400
AIML1210-100K	10	35	2	20	0.70	400
AIML1210-120K	12	35	2	20	0.70	400
AIML1210-150K	15	35	1	20	0.70	300
AIML1210-180K	18	35	1	10	0.70	300
AIML1210-220K	22	35	1	10	0.75	250
AIML1210-270K	27	35	1	10	0.75	250
AIML1210-330K	33	35	1	10	0.80	250
AIML1210-390K	39	35	1	10	0.80	250
AIML1210-470K	47	35	1	10	1.00	200
AIML1210-560M	56 ± 20%	35	1	5	1.20	200
AIML1210-680M	68 ± 20%	35	1	5	1.30	150
AIML1210-820M	82 ± 20%	35	1	5	1.50	150
AIML1210-101M	100 ± 20%	35	1	5	1.50	150
AIML1210-121M	120 ± 20%	35	1	5	1.80	150

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃ ± 5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

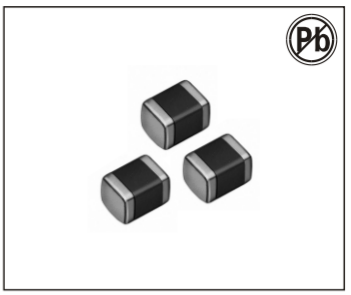


L	3.2 ± 0.2
W	2.5 ± 0.2
T	1.3 ± 0.2
E	0.5 ± 0.3

SHINHOM

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-1806 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

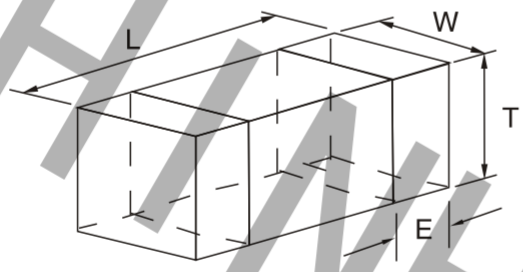
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1806-1R0K	1.0	40	10	80	0.25	500
AIML1806-1R2K	1.2	40	10	75	0.30	500
AIML1806-1R5K	1.5	40	10	60	0.30	500
AIML1806-1R8K	1.8	40	10	55	0.35	450
AIML1806-2R2K	2.2	40	10	50	0.35	400
AIML1806-2R7K	2.7	40	10	45	0.40	400
AIML1806-3R3K	3.3	40	10	40	0.45	400
AIML1806-3R9K	3.9	40	10	35	0.45	400
AIML1806-4R7K	4.7	40	10	30	0.50	300
AIML1806-5R6K	5.6	40	4	20	0.50	300
AIML1806-6R8K	6.8	35	4	20	0.60	300
AIML1806-8R2K	8.2	35	4	15	0.70	250
AIML1806-100K	10	35	2	15	0.70	250

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃±5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ±1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	4.5±0.2
W	1.6±0.2
T	1.6±0.2
E	0.5±0.3

SHINHOM