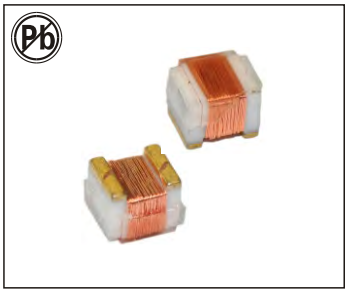
SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

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

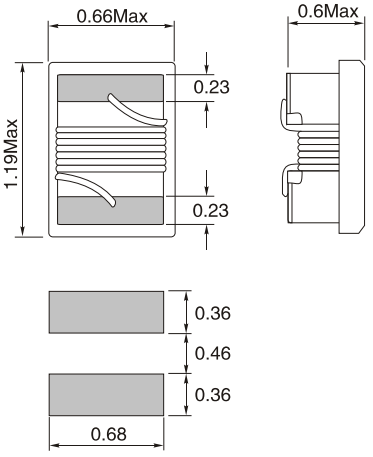
☐ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

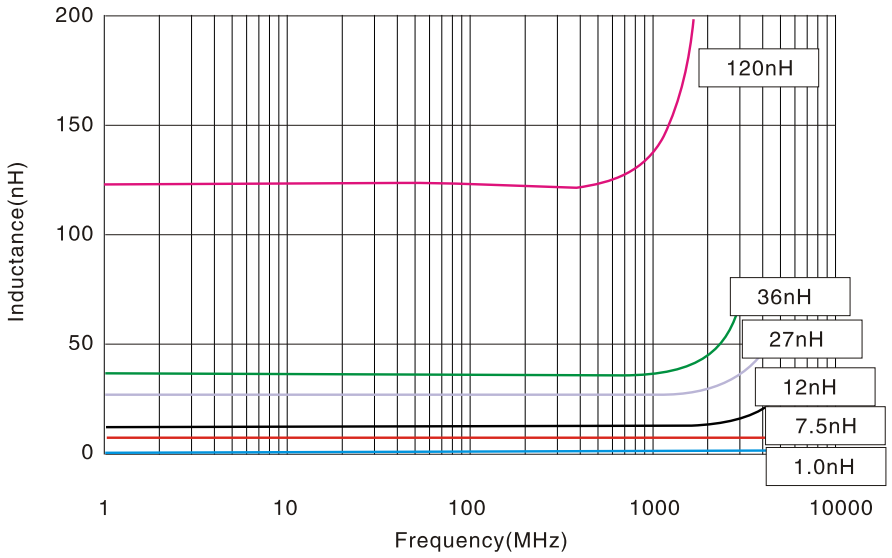


PCB LAYOUT

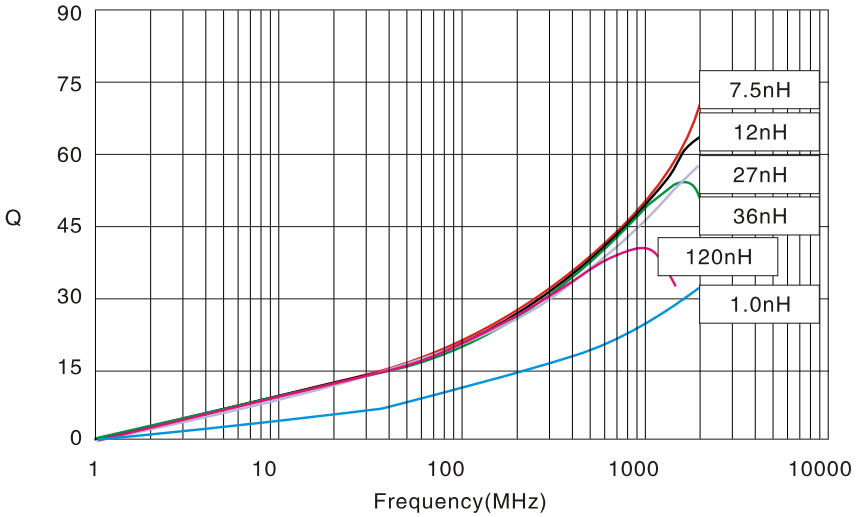
Winding

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance Vs Frequency

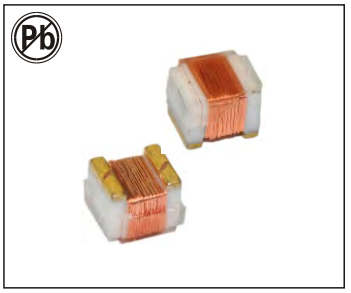


Q Vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0603 SERIES



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COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

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

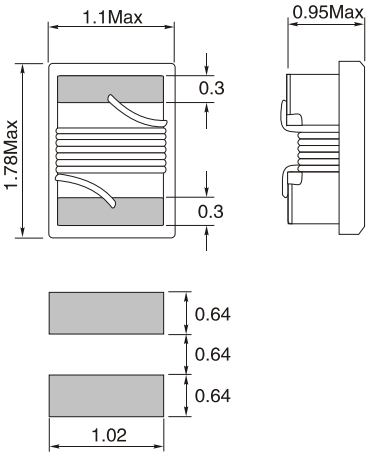
☐ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)

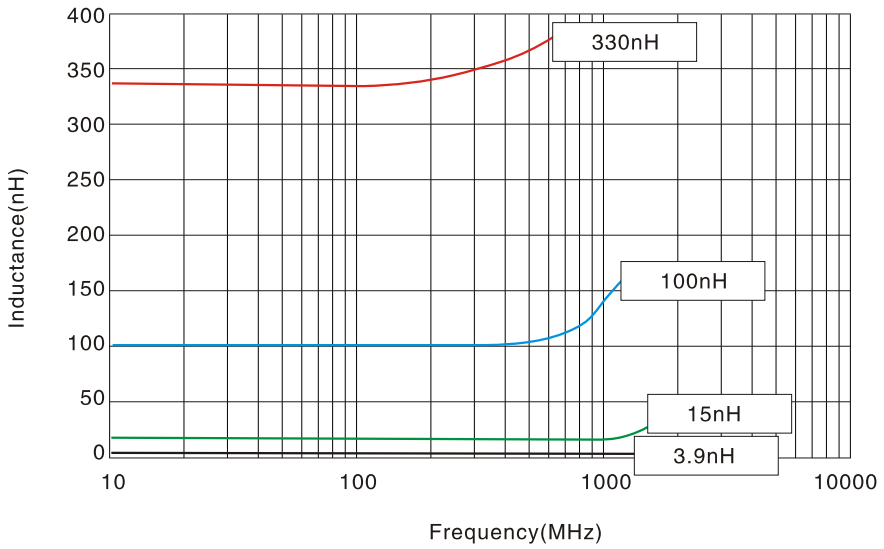


PCB LAYOUT

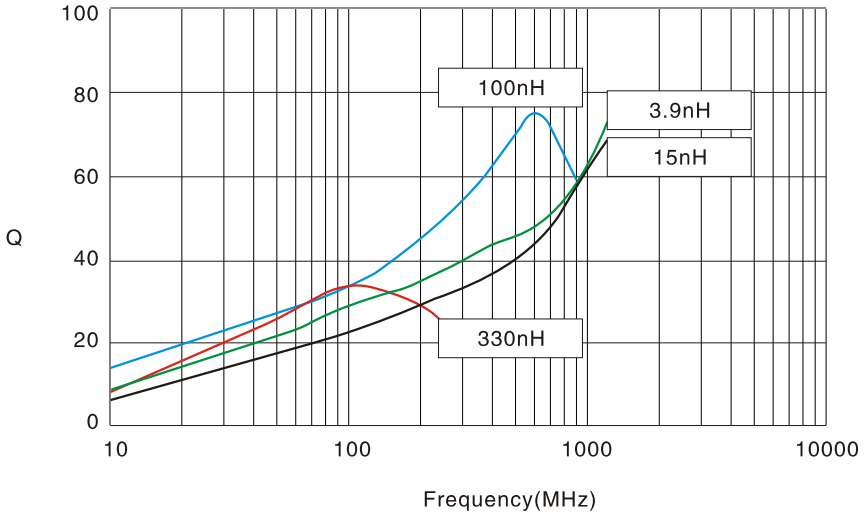
Winding

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency

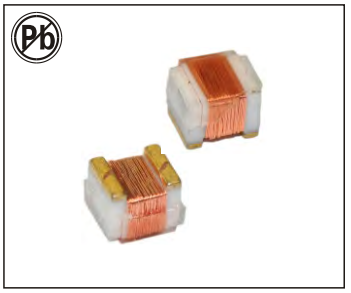


Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC0805 SERIES



FEATURES:

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COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

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

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
  Inductance: HP4191A
  Q:HP4291A
  SRF:HP8753B
  RDC:measured @ 25℃
- Operating Temperature:
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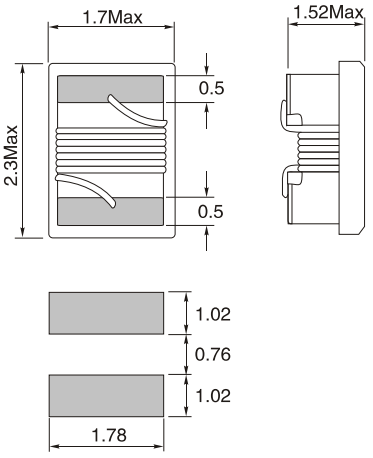

PCB LAYOUT

Winding

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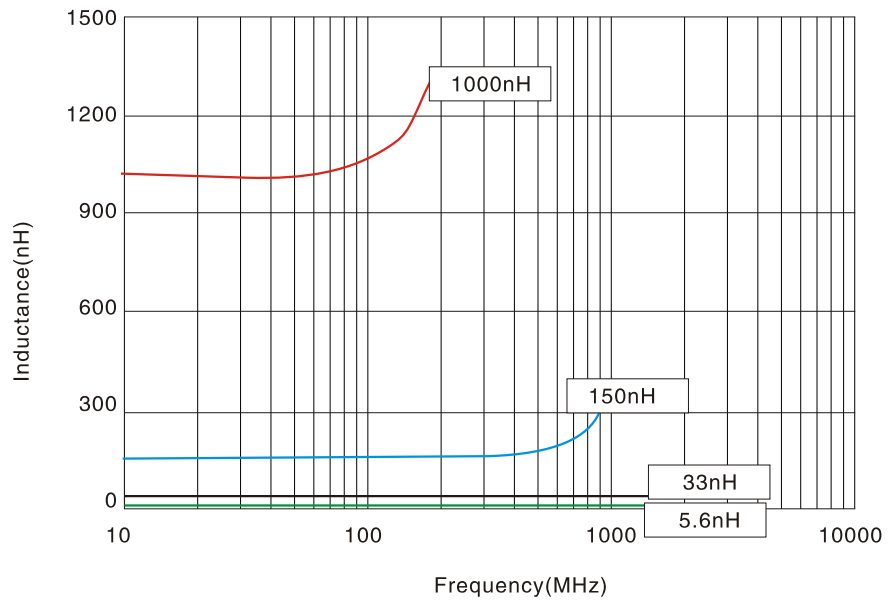
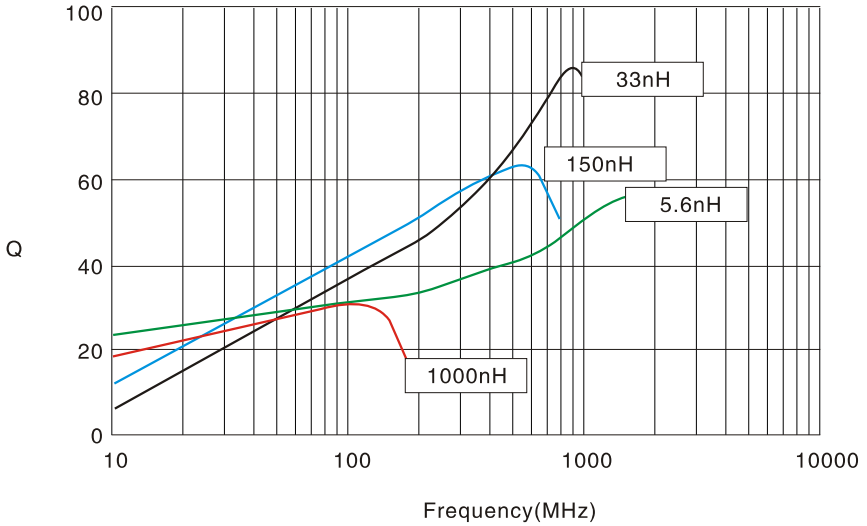
M=±20%, N=±30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency

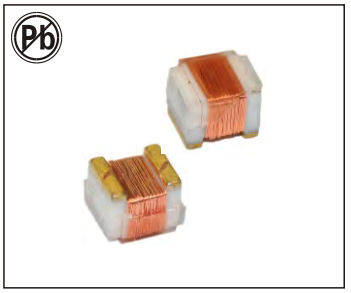


Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC1008 SERIES



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

ELECTRICAL CHARACTERISTICS:

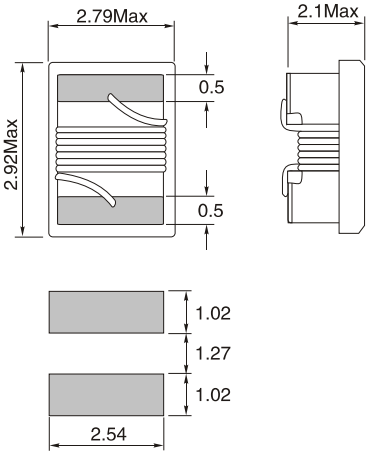
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1008-3N9□	3.9@50MHz	10,5	50@1500MHz	6.00	0.035	1000
AISC1008-4N7□	4.7@50MHz	10,5	50@1500MHz	6.00	0.045	1000
AISC1008-5N6□	5.6@50MHz	10,5	30@1000MHz	6.00	0.180	1000
AISC1008-8N2□	8.2 @50MHz	10,5	50@1000MHz	5.00	0.050	1000
AISC1008-10N□	10@50MHz	10,5,2	50@500MHz	4.10	0.080	1000
AISC1008-12N□	12@50MHz	10,5,2	50@500MHz	3.30	0.090	1000
AISC1008-15N□	15@50MHz	10,5,2	45@500MHz	2.50	0.150	1000
AISC1008-18N□	18@50MHz	10,5,2	50@350MHz	2.50	0.110	1000
AISC1008-22N□	22@50MHz	10,5,2	55@350MHz	2.40	0.120	1000
AISC1008-27N□	27@50MHz	10,5,2	55@350MHz	1.60	0.130	1000
AISC1008-33N□	33@50MHz	10,5,2	60@350MHz	1.60	0.140	1000
AISC1008-39N□	39@50MHz	10,5,2	60@350MHz	1.50	0.150	1000
AISC1008-47N□	47@50MHz	10,5,2	65@350MHz	1.50	0.160	1000
AISC1008-56N□	56@50MHz	10,5,2	65@350MHz	1.10	0.180	1000
AISC1008-68N□	68@50MHz	10,5,2	65@350MHz	1.00	0.200	1000
AISC1008-82N□	82@50MHz	10,5,2	60@350MHz	1.00	0.220	1000
AISC1008-R10□	100@25MHz	10,5,2	60@350MHz	1.00	0.560	650
AISC1008-R12□	120@25MHz	10,5,2	60@350MHz	0.95	0.630	650
AISC1008-R15□	150@25MHz	10,5	45@100MHz	0.80	0.700	580
AISC1008-R18□	180@25MHz	10,5	45@100MHz	0.64	0.770	620
AISC1008-R22□	220@25MHz	10,5	45@100MHz	0.62	0.840	500
AISC1008-R27□	270@25MHz	10,5	45@100MHz	0.60	0.910	500
AISC1008-R33□	330@25MHz	10,5	45@100MHz	0.50	1.050	450
AISC1008-R39□	390@25MHz	10,5	45@100MHz	0.48	1.120	470
AISC1008-R47□	470@25MHz	10,5	45@100MHz	0.45	1.190	470
AISC1008-R56□	560@25MHz	10,5	45@100MHz	0.415	1.330	400
AISC1008-R68□	680@25MHz	10,5	45@100MHz	0.375	1.470	400
AISC1008-R82□	820@25MHz	10,5	45@100MHz	0.25	1.610	400
AISC1008-1R0□	1000@25MHz	10,5	35@50MHz	0.21	1.750	370
AISC1008-1R2□	1200@7.9MHz	10,5	35@50MHz	0.20	2.000	310
AISC1008-1R5□	1500@7.9MHz	10,5	28@50MHz	0.18	2.300	330
AISC1008-1R8□	1800@7.9MHz	10,5	28@50MHz	0.16	2.600	300
AISC1008-2R2□	2200@7.9MHz	10,5	20@50MHz	0.09	2.800	280
AISC1008-2R7□	2700@7.9MHz	10,5	22@25MHz	0.08	3.200	290
AISC1008-3R3□	3300@7.9MHz	10,5	22@25MHz	0.07	3.400	290
AISC1008-3R9□	3900@7.9MHz	10,5	16@25MHz	0.06	3.600	260
AISC1008-4R7□	4700@7.9MHz	10,5	18@25MHz	0.06	4.000	260
AISC1008-5R6□	5600@7.9MHz	10,5	18@7.9MHz	0.06	7.600	240
AISC1008-6R8□	6800@7.9MHz	10,5	18@7.9MHz	0.05	8.200	200
AISC1008-8R2□	8200@7.9MHz	10,5	18@7.9MHz	0.04	8.200	170
AISC1008-100□	10000@7.9MHz	10,5	20@7.9MHz	0.04	9.100	160

TECHNICAL INFORMATION:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



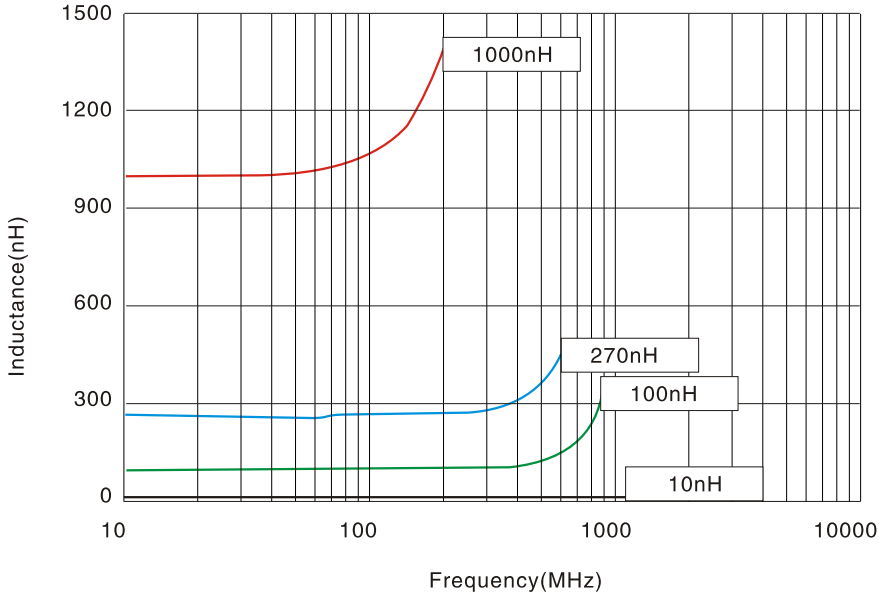
PCB LAYOUT

Winding

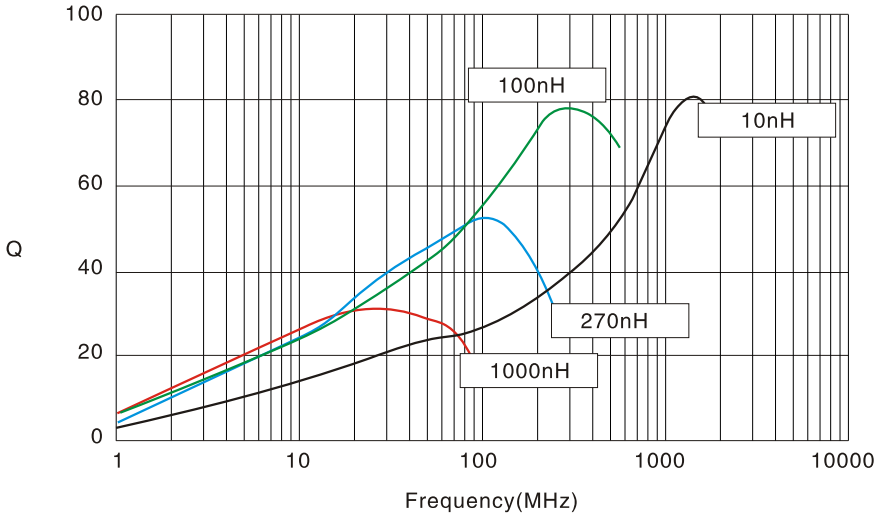
□ G=±2%, J=±5%, K=±10%,
M=±20%, N=±30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency

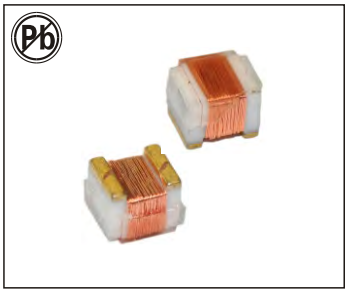


Q vs Frequency



SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC1210 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:

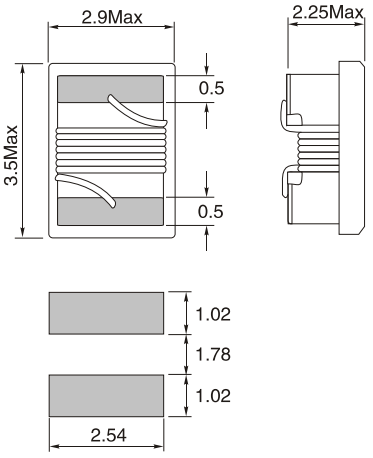
Part Number	L(nH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1210-3N9□	3.9@100MHz	10	30@300MHz	6.00	0.050	1000
AISC1210-4N7□	4.7@100MHz	10,5	30@300MHz	5.80	0.065	1000
AISC1210-8N2□	8.2@100MHz	10	30@300MHz	5.50	0.070	1000
AISC1210-10N□	10@100MHz	10,5,2	40@300MHz	4.00	0.080	1000
AISC1210-12N□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

TECHNICAL INFORMATION:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



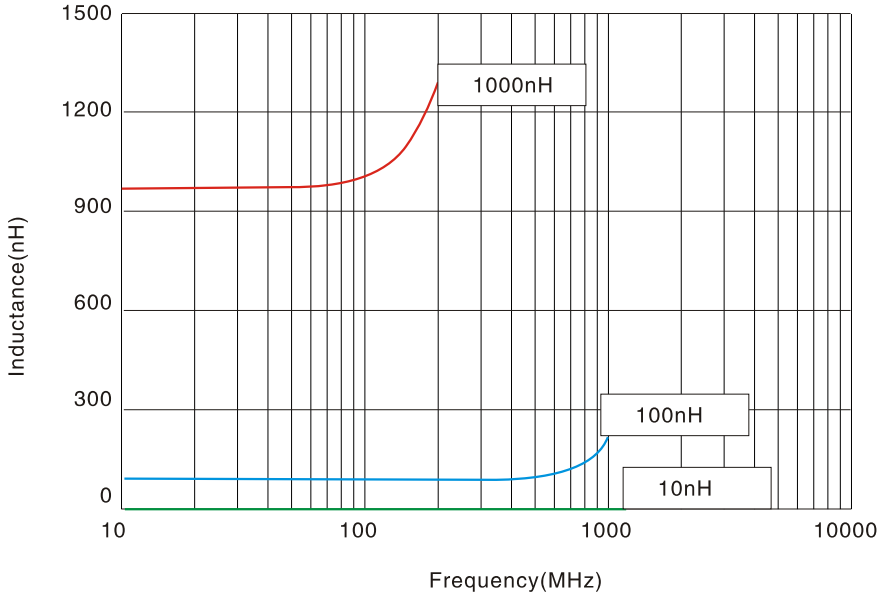
PCB LAYOUT

Winding

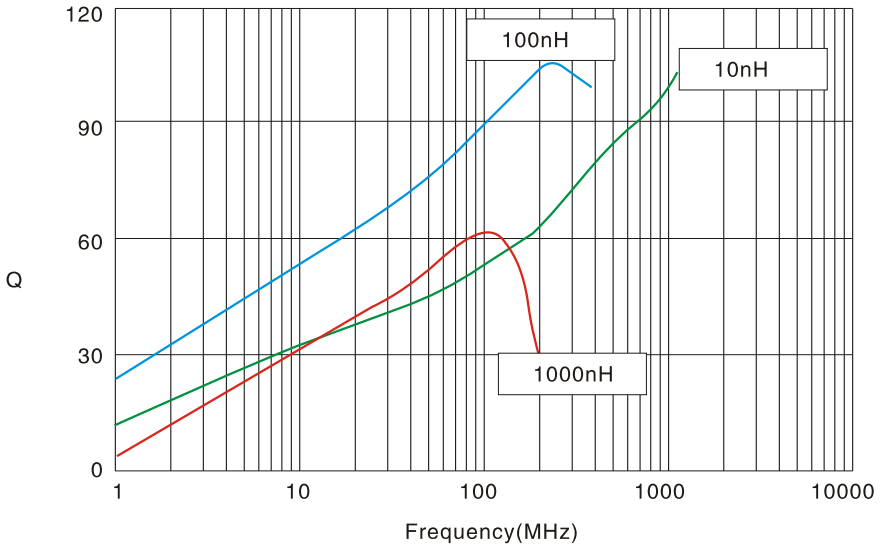
□ G=±2%, J=±5%, K=±10%,
M=±20%, N=±30%

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC0603F SERIES

FEATURES:

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

APPLICATIONS:

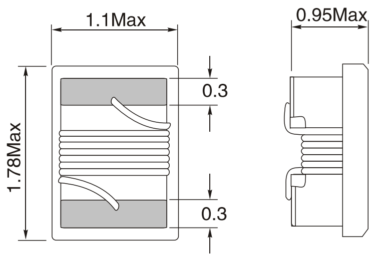
- Low DC resistance?high current and high inductance and high reliability

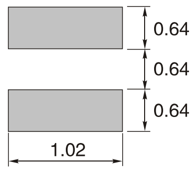
ELECTRICAL CHARACTERISTICS:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)





PCB LAYOUT

Winding

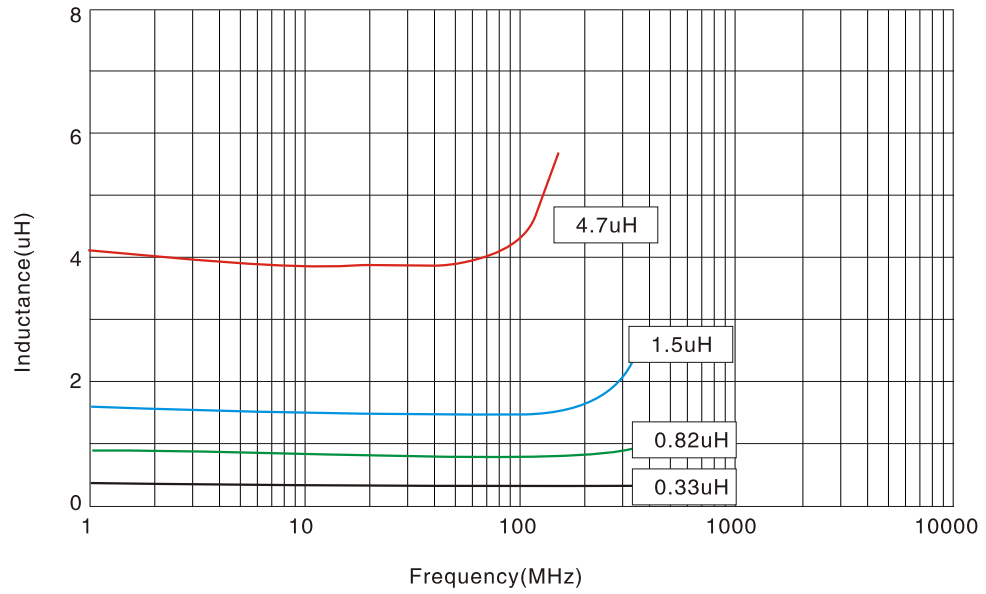
□ G=±2%, J=±5%, K=±10%, M=±20%, N=±30%

NOTES:

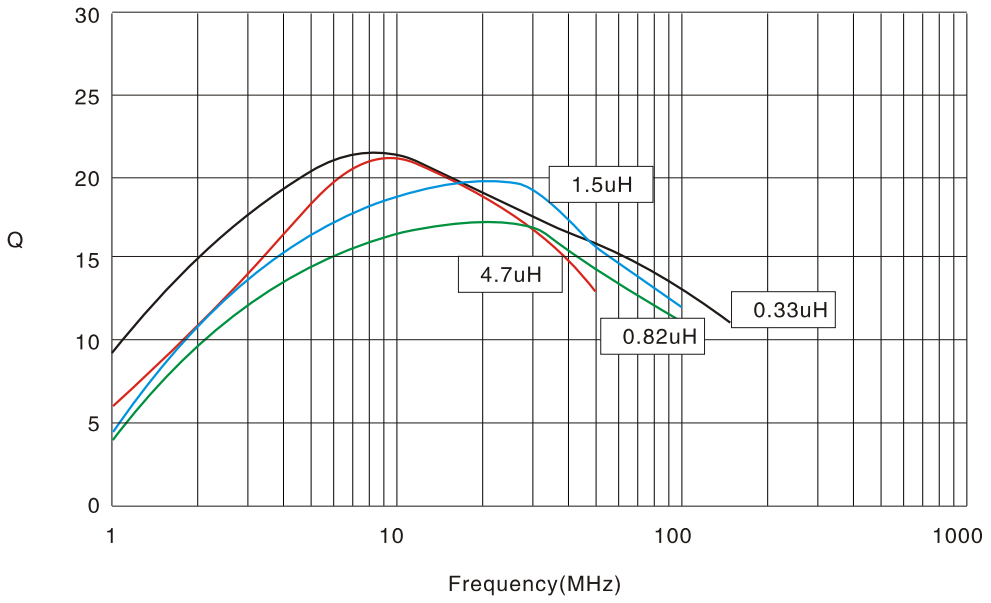
- Testing: (Equivalent acceptable)@ 25℃ · Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: · -40℃ to +125℃
- Solder methods: · Wave, Reflow,Vapor Phase
- Solderability: · Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC0805F SERIES

FEATURES:

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

APPLICATIONS:

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

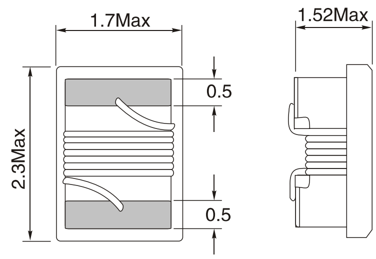
ELECTRICAL CHARACTERISTICS:

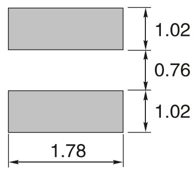
Part Number	L(uH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC0805F-1R0□	1.0@7.96MHz	10,5	12@7.96MHz	360	1.00	430
AISC0805F-1R2□	1.2@7.96MHz	10,5	12@7.96MHz	350	1.15	410
AISC0805F-1R5□	1.5@7.96MHz	10,5	12@7.96MHz	300	1.20	400
AISC0805F-1R8□	1.8@7.96MHz	10,5	12@7.96MHz	200	1.35	380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

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)





PCB LAYOUT

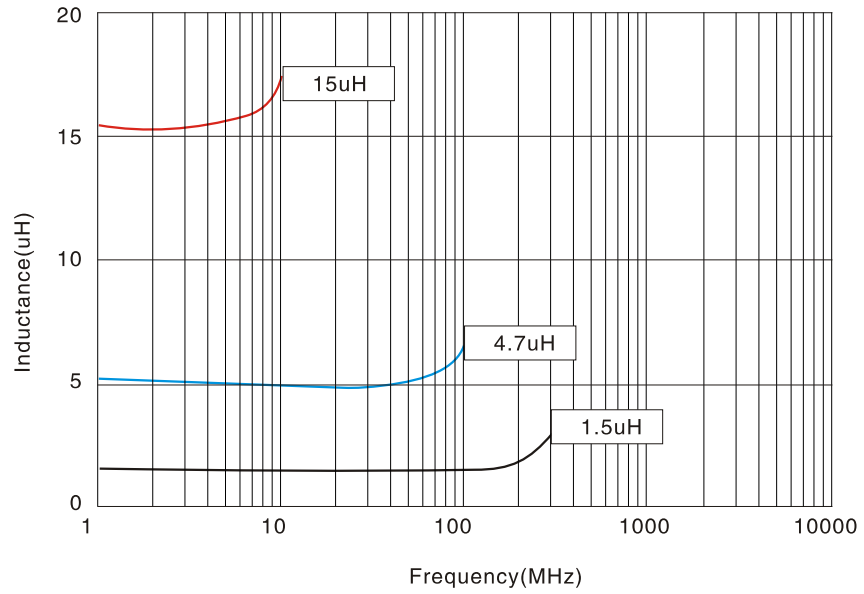
Winding

NOTES:

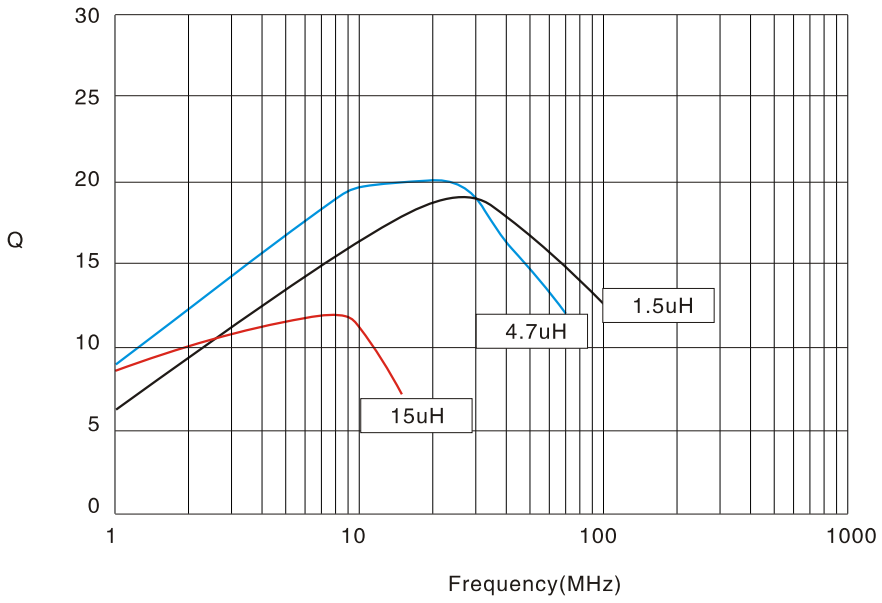
- Testing: (Equivalent acceptable)@ 25℃ · Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: · −40℃ to +125℃
- Solder methods: · Wave, Reflow,Vapor Phase
- Solderability: · Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1008F SERIES

FEATURES:

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

APPLICATIONS:

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

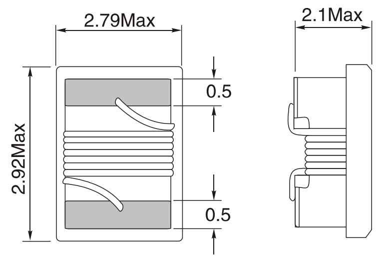
ELECTRICAL CHARACTERISTICS:

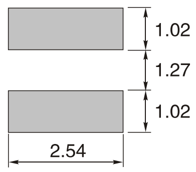
Part Number	L(uH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1008F-1R0□	1.0@25.2MHz	10,5	18@25.2MHz	300	0.55	580
AISC1008F-1R2□	1.2@7.96MHz	10,5	18@7.96MHz	250	0.75	550
AISC1008F-1R5□	1.5@7.96MHz	10,5	18@7.96MHz	230	0.85	400
AISC1008F-1R8□	1.8@7.96MHz	10,5	18@7.96MHz	168	0.95	320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

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)





PCB LAYOUT

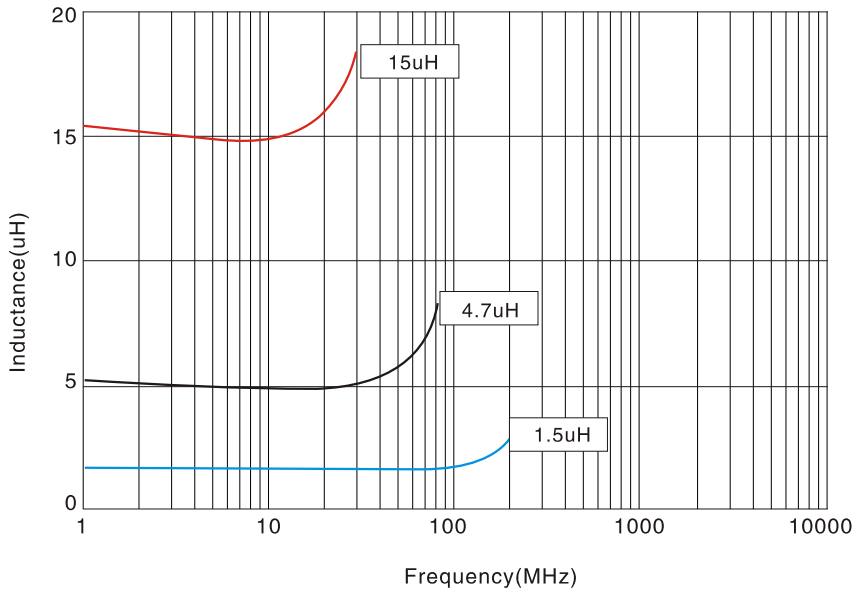
Winding

NOTES:

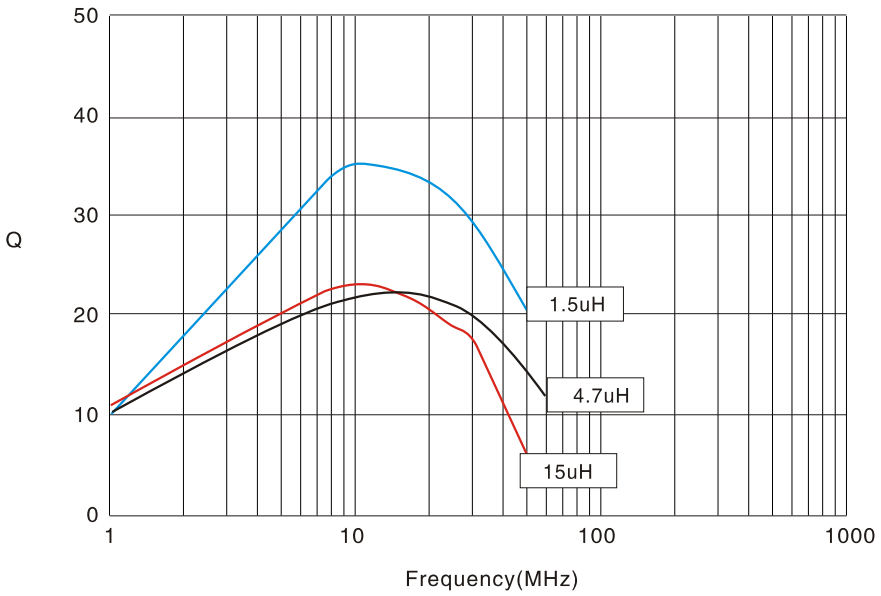
- Testing: (Equivalent acceptable)@ 25℃ · Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: · -40℃ to +125℃
- Solder methods: · Wave, Reflow,Vapor Phase
- Solderability: · Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1210F SERIES

FEATURES:

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

APPLICATIONS:

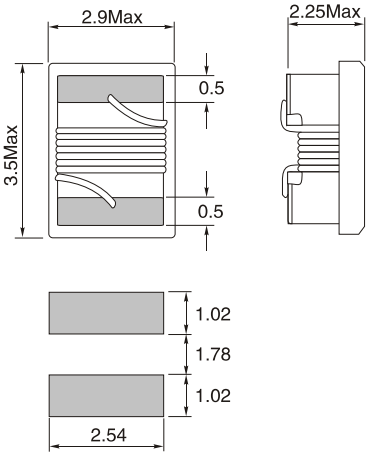
- Low DC resistance?high current and high inductance and high reliability

ELECTRICAL CHARACTERISTICS:

Part Number	L(uH)	Tolerance (%)	Q Min	SRF (GHz) Min	DCR (Ω) Max	IDC (mA) Max
AISC1210F-1R0□	1.0@7.96MHz	10,5	20@7.96MHz	220	0.3	450
AISC1210F-1R2□	1.2@7.96MHz	10,5	20@7.96MHz	210	0.3	450
AISC1210F-1R5□	1.5@7.96MHz	10,5	20@7.96MHz	200	0.4	450
AISC1210F-1R8□	1.8@7.96MHz	10,5	20@7.96MHz	195	0.5	450
AISC1210F-2R2□	2.2@7.96MHz	10,5	20@7.96MHz	175	0.6	450
AISC1210F-2R7□	2.7@7.96MHz	10,5	20@7.96MHz	120	0.7	420
AISC1210F-3R3□	3.3@7.96MHz	10,5	20@7.96MHz	80	1.1	380
AISC1210F-3R9□	3.9@7.96MHz	10,5	20@7.96MHz	75	1.2	360
AISC1210F-4R7□	4.7@7.96MHz	10,5	18@7.96MHz	60	1.3	350
AISC1210F-5R6□	5.6@7.96MHz	10,5	18@7.96MHz	50	2.0	320
AISC1210F-6R8□	6.8@7.96MHz	10,5	18@7.96MHz	35	1.5	310
AISC1210F-8R2□	8.2@7.96MHz	10,5	18@7.96MHz	35	1.6	305
AISC1210F-100□	10@2.52MHz	10,5	15@2.52MHz	30	1.0	300
AISC1210F-120□	12@2.52MHz	10,5	15@2.52MHz	25	1.2	265
AISC1210F-150□	15@2.52MHz	10,5	15@2.52MHz	22	2.0	225
AISC1210F-180□	18@2.52MHz	10,5	15@2.52MHz	22	2.1	210
AISC1210F-220□	22@2.52MHz	10,5	15@2.52MHz	20	2.4	200
AISC1210F-270□	27@2.52MHz	10,5	15@2.52MHz	18	2.7	180
AISC1210F-330□	33@2.52MHz	10,5	15@2.52MHz	15	2.9	160
AISC1210F-390□	39@2.52MHz	10,5	15@2.52MHz	16	4.7	150
AISC1210F-470□	47@2.52MHz	10,5	15@2.52MHz	10	5.2	140
AISC1210F-560□	56@2.52MHz	10,5	15@2.52MHz	8	5.6	125
AISC1210F-680□	68@2.52MHz	10,5	12@2.52MHz	5	4.7	110
AISC1210F-820□	82@2.52MHz	10,5	12@2.52MHz	5	5.6	100
AISC1210F-101□	100@0.796MHz	10,5	10@0.796MHz	5	6.8	95
AISC1210F-121□	120@0.796MHz	10,5	10@0.796MHz	4	7.9	85
AISC1210F-151□	150@0.796MHz	10,5	10@0.796MHz	4.0	9.0	80
AISC1210F-181□	180@0.796MHz	10,5	8@0.796MHz	3.0	14.5	70
AISC1210F-221□	220@0.796MHz	10,5	8@0.796MHz	2.6	16.5	65
AISC1210F-271□	270@0.796MHz	10	8@0.796MHz	2.5	18.0	60
AISC1210F-331□	330@0.796MHz	10	8@0.796MHz	2.3	19.0	55
AISC1210F-391□	390@0.796MHz	10	8@0.796MHz	2.2	21.5	45
AISC1210F-471□	470@0.796MHz	10	8@0.796MHz	2.0	22.5	40
AISC1210F-561□	560@0.796MHz	10	6@0.796MHz	1.5	28.0	30

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

Winding

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

NOTES:

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

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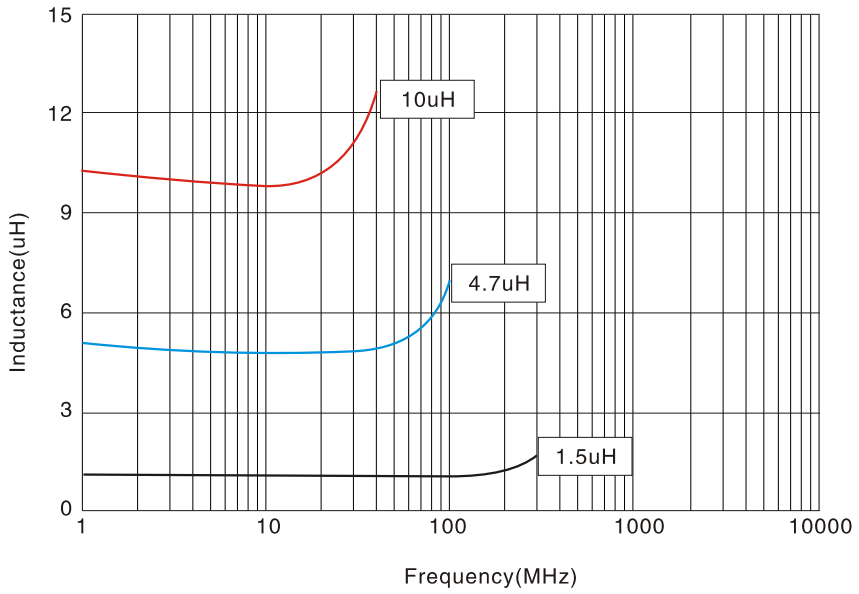
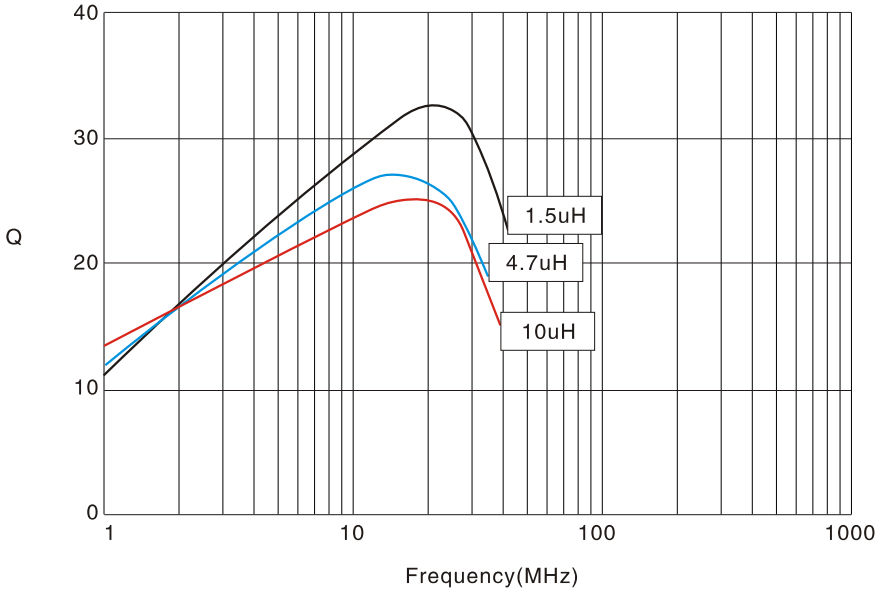
SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency



SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC1812F SERIES

FEATURES:

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

APPLICATIONS:

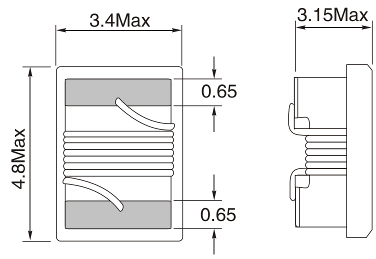
- Low DC resistance?high current and high inductance and high reliability

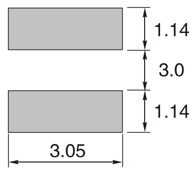
ELECTRICAL CHARACTERISTICS:

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)





PCB LAYOUT

Winding

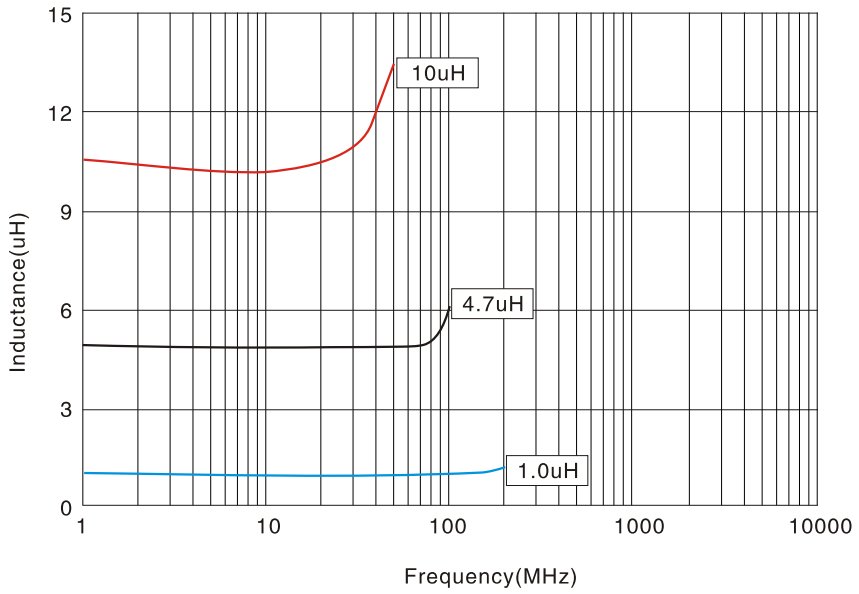
□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

NOTES:

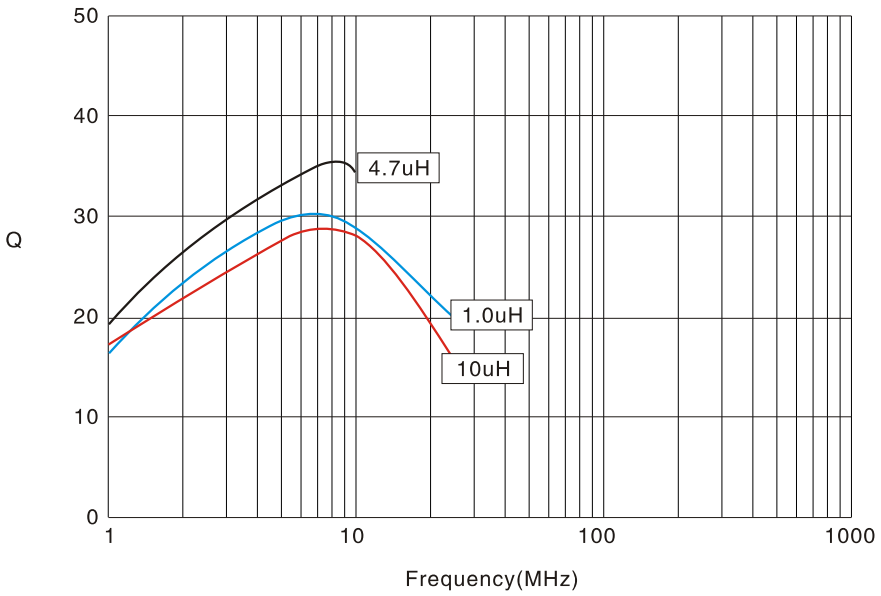
- Testing: (Equivalent acceptable)@ 25℃ · Inductance,Q: HP4191A, SRF:HP8753B
- Operating Temperature: · −40℃ to +125℃
- Solder methods: · Wave, Reflow,Vapor Phase
- Solderability: · Max 260℃ for 10 seconds

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency

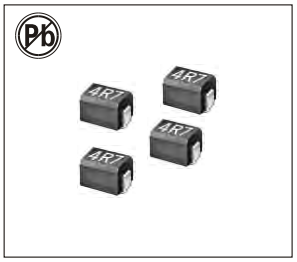


Q vs Frequency



SURFACE–MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1008 SERIES



FEATURES:

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

APPLICATIONS:

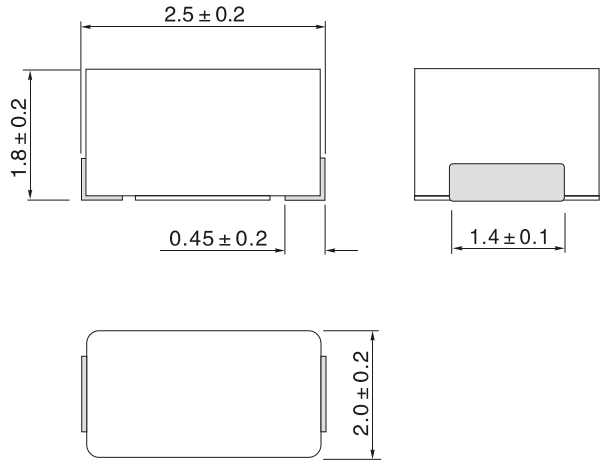
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM1008–10NK	.010	±10	10	2150	0.26	530	100
AISM1008–12NK	.012	±10	15	2050	0.27	500	100
AISM1008–15NK	.015	±10	15	1850	0.31	480	100
AISM1008–18NK	.018	±10	15	1650	0.34	450	100
AISM1008–22NK	.022	±10	15	1550	0.38	420	100
AISM1008–27NK	.027	±10	15	1400	0.42	410	100
AISM1008–33NK	.033	±10	15	1250	0.46	400	100
AISM1008–39NK	.039	±10	20	1100	0.50	380	100
AISM1008–47NK	.047	±10	20	1050	0.56	360	100
AISM1008–56NK	.056	±10	20	950	0.65	340	100
AISM1008–68NK	.068	±10	20	900	0.70	320	100
AISM1008–82NK	.082	±10	20	850	0.75	300	100
AISM1008–R10K	.10	±10	20	700	0.80	280	100
AISM1008–R12K	.12	±10	30	600	0.37	520	25.2
AISM1008–R15K	.15	±10	30	550	0.42	480	25.2
AISM1008–R18K	.18	±10	30	500	0.46	460	25.2
AISM1008–R22K	.22	±10	30	450	0.52	430	25.2
AISM1008–R27K	.27	±10	30	425	0.56	420	25.2
AISM1008–R33K	.33	±10	30	400	0.60	400	25.2
AISM1008–R39K	.39	±10	30	375	0.65	375	25.2
AISM1008–R47K	.47	±10	30	350	0.68	350	25.2
AISM1008–R56K	.56	±10	30	300	0.75	325	25.2
AISM1008–R68K	.68	±10	30	270	0.85	300	25.2
AISM1008–R82K	.82	±10	30	250	1.00	260	25.2
AISM1008–1R0J	1.00	±5	30	220	1.10	245	7.96

Part Number	L μH	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM1008–1R2J	1.2	±5	30	180	1.20	230	7.96
AISM1008–1R5J	1.5	±5	30	135	1.30	200	7.96
AISM1008–1R8J	1.8	±5	30	100	1.45	210	7.96
AISM1008–2R2J	2.2	±5	30	75	1.55	200	7.96
AISM1008–2R7J	2.7	±5	30	55	1.70	195	7.96
AISM1008–3R3J	3.3	±5	30	48	1.90	185	7.96
AISM1008–3R9J	3.9	±5	30	43	2.10	180	7.96
AISM1008–4R7J	4.7	±5	30	40	2.30	175	7.96
AISM1008–5R6J	5.6	±5	25	36	2.50	170	7.96
AISM1008–6R8J	6.8	±5	25	33	2.70	165	7.96
AISM1008–8R2J	8.2	±5	25	30	3.05	160	7.96
AISM1008–100J	10	±5	25	27	3.50	155	2.52
AISM1008–120J	12	±5	25	23	3.80	150	2.52
AISM1008–150J	15	±5	25	20	4.40	140	2.52
AISM1008–180J	18	±5	25	18	4.80	130	2.52
AISM1008–220J	22	±5	25	17	5.50	125	2.52
AISM1008–270J	27	±5	25	16	6.30	115	2.52
AISM1008–330J	33	±5	20	15	7.10	110	2.52
AISM1008–390J	39	±5	20	14	9.50	90	2.52
AISM1008–470J	47	±5	20	13	11.10	80	2.25
AISM1008–560J	56	±5	20	12	12.10	75	2.52
AISM1008–680J	68	±5	20	11	16.60	70	2.52
AISM1008–820J	82	±5	20	10	19.00	65	2.52
AISM1008–101J	100	±5	15	9	21.00	60	0.796

PHYSICAL CHARACTERISTICS



Winding

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

Note:All specifications subject to change without notice.

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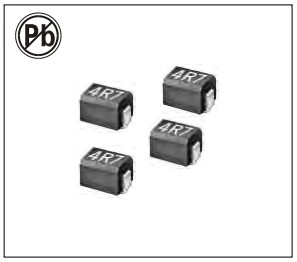
SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1210 SERIES



FEATURES:

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

APPLICATIONS:

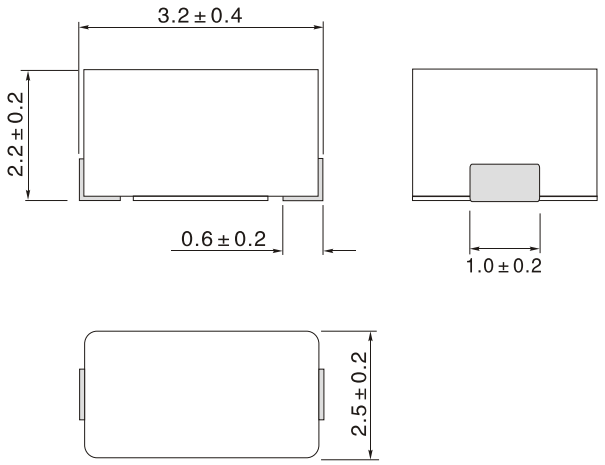
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1210–R10 ☐	0.1	± 20, ± 10%	28	100	700	0.44	450
AISM1210–R12 ☐	0.12	± 20, ± 10%	30	25.2	500	0.22	450
AISM1210–R15 ☐	0.15	± 20, ± 10%	30	25.2	450	0.25	450
AISM1210–R18 ☐	0.18	± 20, ± 10%	30	25.2	400	0.28	450
AISM1210–R22 ☐	0.22	± 20, ± 10%	30	25.2	350	0.32	450
AISM1210–R27 ☐	0.27	± 20, ± 10%	30	25.2	320	0.36	450
AISM1210–R33 ☐	0.33	± 20, ± 10%	30	25.2	300	0.4	450
AISM1210–R39 ☐	0.39	± 20, ± 10%	30	25.2	250	0.45	450
AISM1210–R47 ☐	0.47	± 20, ± 10%	30	25.2	220	0.5	450
AISM1210–R56 ☐	0.56	± 20, ± 10%	30	25.2	180	0.55	450
AISM1210–R68 ☐	0.68	± 20, ± 10%	30	25.2	160	0.6	450
AISM1210–R82 ☐	0.82	± 20, ± 10%	30	25.2	140	0.65	450
AISM1210–1R0 ☐	1	± 10%, ± 5%	30	7.96	120	0.7	400
AISM1210–1R2 ☐	1.2	± 10%, ± 5%	30	7.96	100	0.75	390
AISM1210–1R5 ☐	1.5	± 10%, ± 5%	30	7.96	85	0.85	370
AISM1210–1R8 ☐	1.8	± 10%, ± 5%	30	7.96	80	0.9	350
AISM1210–2R2 ☐	2.2	± 10%, ± 5%	30	7.96	75	1	320
AISM1210–2R7 ☐	2.7	± 10%, ± 5%	30	7.96	70	1.1	290
AISM1210–3R3 ☐	3.3	± 10%, ± 5%	30	7.96	60	1.2	260
AISM1210–3R9 ☐	3.9	± 10%, ± 5%	30	7.96	55	1.3	250
AISM1210–4R7 ☐	4.7	± 10%, ± 5%	30	7.96	50	1.5	220
AISM1210–5R6 ☐	5.6	± 10%, ± 5%	30	7.96	45	1.6	200
AISM1210–6R8 ☐	6.8	± 10%, ± 5%	30	7.96	40	1.8	180
AISM1210–8R2 ☐	8.2	± 10%, ± 5%	30	7.96	35	2	170
AISM1210–100 ☐	10	± 10%, ± 5%	30	2.52	30	2.1	150
AISM1210–120 ☐	12	± 10%, ± 5%	30	2.52	20	2.5	140
AISM1210–150 ☐	15	± 10%, ± 5%	30	2.52	20	2.8	130
AISM1210–180 ☐	18	± 10%, ± 5%	30	2.52	20	3.3	120
AISM1210–220 ☐	22	± 10%, ± 5%	30	2.52	20	3.7	110
AISM1210–270 ☐	27	± 10%, ± 5%	30	2.52	20	5	80
AISM1210–330 ☐	33	± 10%, ± 5%	30	2.52	17	5.6	70
AISM1210–390 ☐	39	± 10%, ± 5%	30	2.52	16	6.4	65
AISM1210–470 ☐	47	± 10%, ± 5%	30	2.52	15	7	60
AISM1210–560 ☐	56	± 10%, ± 5%	30	2.52	13	8	55
AISM1210–680 ☐	68	± 10%, ± 5%	30	2.52	12	9	50
AISM1210–820 ☐	82	± 10%, ± 5%	30	2.52	11	10	45
AISM1210–101 ☐	100	± 10%, ± 5%	20	0.796	10	10	40
AISM1210–121 ☐	120	± 10%, ± 5%	20	0.796	10	11	70
AISM1210–151 ☐	150	± 10%, ± 5%	20	0.796	8	15	65
AISM1210–181 ☐	180	± 10%, ± 5%	20	0.796	7	17	60
AISM1210–221 ☐	220	± 10%, ± 5%	20	0.796	7	21	50

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

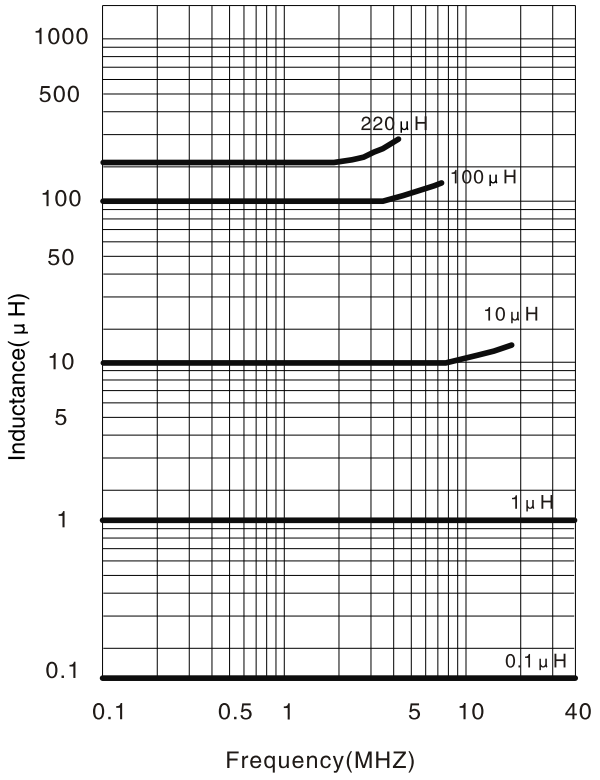
PHYSICAL CHARACTERISTICS



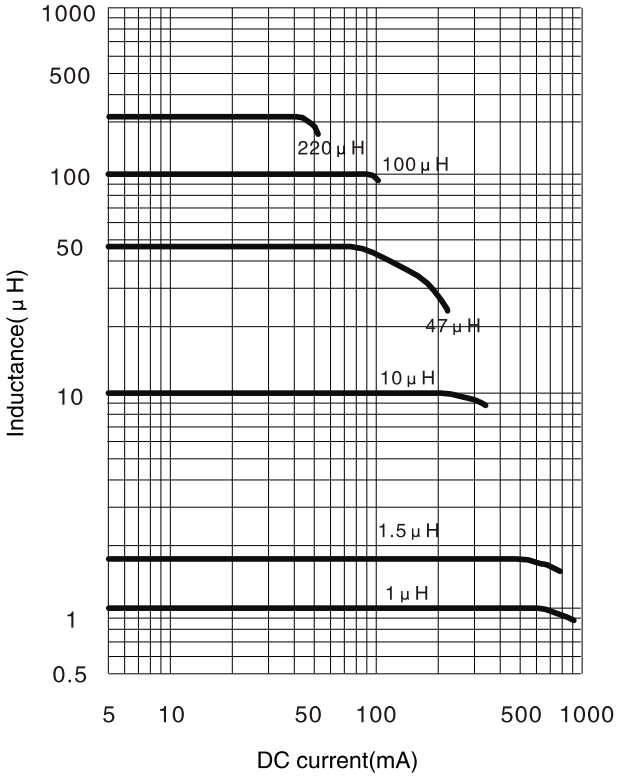
Winding

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

INDUCTANCE VS FREQUENCY CURVE

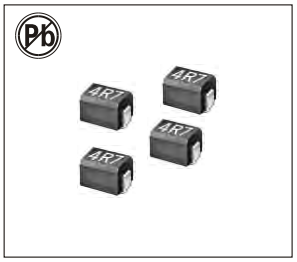


IMPEDANCE VS FREQUENCY CURVE



SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1812 SERIES



FEATURES:

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

APPLICATIONS:

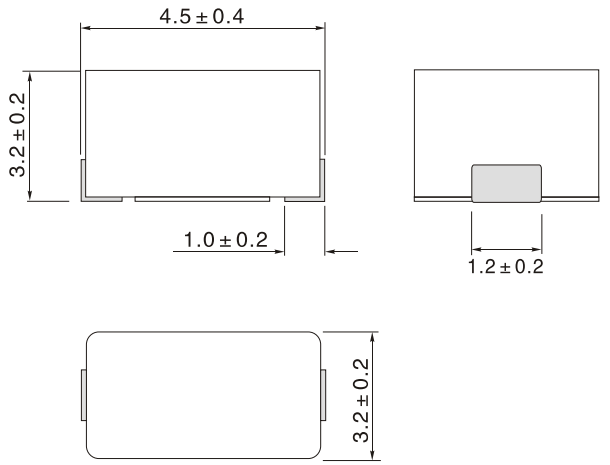
- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1812–R10 □	0.1	± 10%, ± 20%	35	25.2	300	0.18	800
AISM1812–R12 □	0.12	± 10%, ± 20%	35	25.2	280	0.20	770
AISM1812–R15 □	0.15	± 10%, ± 20%	35	25.2	250	0.22	730
AISM1812–R18 □	0.18	± 10%, ± 20%	35	25.2	220	0.24	700
AISM1812–R22 □	0.22	± 10%, ± 20%	40	25.2	200	0.25	665
AISM1812–R27 □	0.27	± 10%, ± 20%	40	25.2	180	0.26	635
AISM1812–R33 □	0.33	± 10%, ± 20%	40	25.2	165	0.28	605
AISM1812–R39 □	0.39	± 10%, ± 20%	40	25.2	150	0.30	575
AISM1812–R47 □	0.47	± 10%, ± 20%	40	25.2	145	0.32	545
AISM1812–R56 □	0.56	± 10%, ± 20%	40	25.2	140	0.36	520
AISM1812–R68 □	0.68	± 10%, ± 20%	40	25.2	135	0.40	500
AISM1812–R82 □	0.82	± 10%, ± 20%	40	25.2	130	0.45	475
AISM1812–1R0 □	1.0	± 10%, ± 20%	50	7.96	100	0.5	450
AISM1812–1R2 □	1.2	± 10%, ± 20%	50	7.96	80	0.55	430
AISM1812–1R5 □	1.5	± 10%, ± 20%	50	7.96	70	0.6	410
AISM1812–1R8 □	1.8	± 10%, ± 20%	50	7.96	60	0.65	390
AISM1812–2R2 □	2.2	± 10%, ± 20%	50	7.96	55	0.7	380
AISM1812–2R7 □	2.7	± 10%, ± 20%	50	7.96	50	0.75	370
AISM1812–3R3 □	3.3	± 10%, ± 20%	50	7.96	45	0.8	355
AISM1812–3R9 □	3.9	± 10%, ± 20%	50	7.96	40	0.9	330
AISM1812–4R7 □	4.7	± 10%, ± 20%	50	7.96	35	1	315
AISM1812–5R6 □	5.6	± 10%, ± 20%	50	7.96	33	1.1	300
AISM1812–6R8 □	6.8	± 10%, ± 20%	50	7.96	27	1.2	285
AISM1812–8R2 □	8.2	± 5%, ± 10%	50	7.96	25	1.4	270
AISM1812–100 □	10	± 5%, ± 10%	50	2.52	20	1.6	250
AISM1812–120 □	12	± 5%, ± 10%	50	2.52	18	2	225
AISM1812–150 □	15	± 5%, ± 10%	50	2.52	17	2.5	200
AISM1812–180 □	18	± 5%, ± 10%	50	2.52	15	2.8	190
AISM1812–220 □	22	± 5%, ± 10%	50	2.52	13	3.2	180
AISM1812–270 □	27	± 5%, ± 10%	50	2.52	12	3.6	170
AISM1812–330 □	33	± 5%, ± 10%	50	2.52	11	4	160
AISM1812–390 □	39	± 5%, ± 10%	50	2.52	10	4.5	150
AISM1812–470 □	47	± 5%, ± 10%	50	2.52	10	5	140
AISM1812–560 □	56	± 5%, ± 10%	50	2.52	9	5.5	135
AISM1812–680 □	68	± 5%, ± 10%	50	2.52	9	6	130
AISM1812–820 □	82	± 5%, ± 10%	50	2.52	8	7	120
AISM1812–101 □	100	± 5%, ± 10%	40	0.796	8	8	110
AISM1812–121 □	120	± 5%, ± 10%	40	0.796	6	8	110
AISM1812–151 □	150	± 5%, ± 10%	40	0.796	5	9	105
AISM1812–181 □	180	± 5%, ± 10%	40	0.796	5	9.5	102
AISM1812–221 □	220	± 5%, ± 10%	40	0.796	4	10	100
AISM1812–271 □	270	± 5%, ± 10%	40	0.796	4	12	92
AISM1812–331 □	330	± 5%, ± 10%	40	0.796	3.5	14	85
AISM1812–391 □	390	± 5%, ± 10%	40	0.796	3	18	80
AISM1812–471 □	470	± 5%, ± 10%	40	0.796	3	26	62
AISM1812–561 □	560	± 5%, ± 10%	30	0.796	3	30	50
AISM1812–681 □	680	± 5%, ± 10%	30	0.796	3	30	50
AISM1812–821 □	820	± 5%, ± 10%	30	0.796	2.5	35	30
AISM1812–102 □	1000	± 5%, ± 10%	20	0.252	2.5	40	30

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

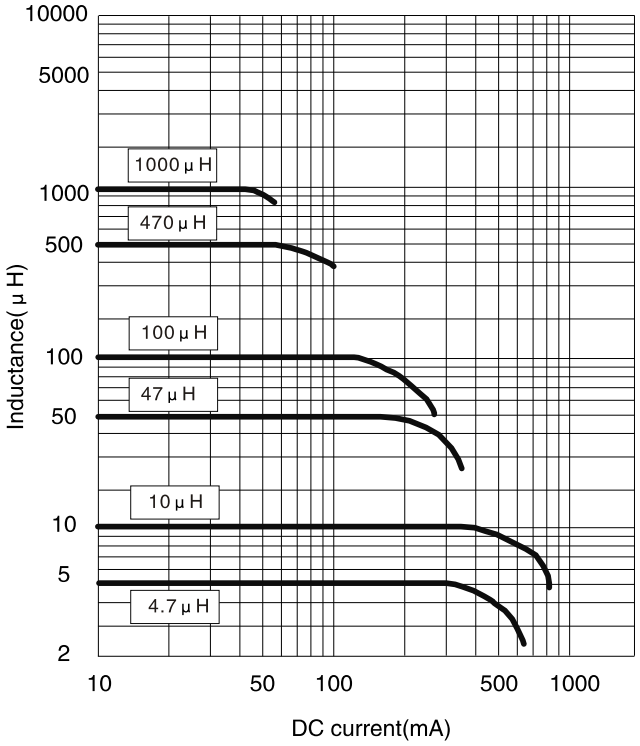
PHYSICAL CHARACTERISTICS



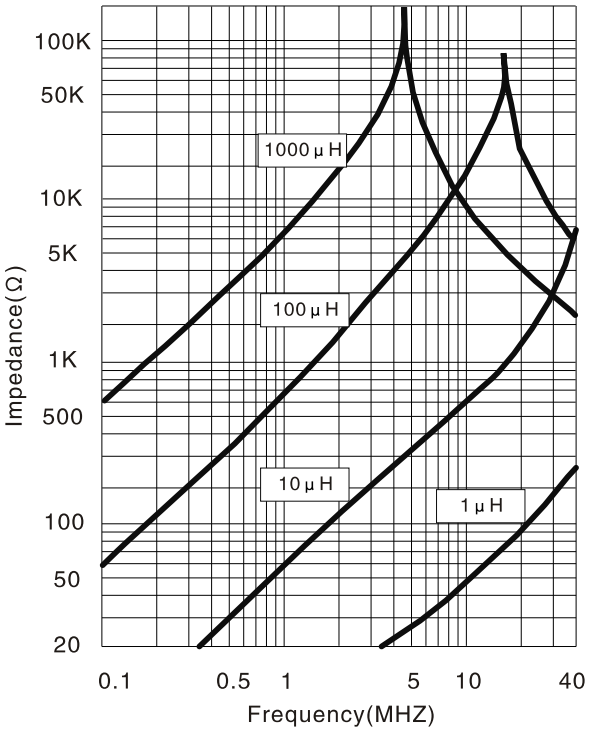
Winding

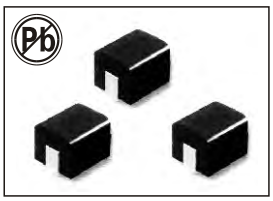
- Testing: (Equivalent acceptable)
  Inductance:HP4285A
  RDC:QuadTech 1880 Milliohmmeter
  Q: HP4342A
  SRF:HP4291A
- Operating temperature: –25℃ to +85℃
- Storage Temperature: –40℃ to +85℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Inductance & Tolerance

DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE





SURFACE–MOUNT WOUND MOLDED CHIP INDUCTORS
AISM–2220 SERIES

FEATURES:

- Molded construction
- Heat Resistant Molded Resin
- Excellent Mechanical Strength
- Excellent Solderability
- High Reliability
- Low Profile

OPTIONS:

- Packaging:Tape & Reel is standard (Qty:500pcs)
  Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

COMMON APPLICATIONS:

- VCRs
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz	Part Number	L μH	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AISM–2220–1R0K	1.00	10	95	0.030	1800	7.96	AISM–2220–121K	120	20	5.4	1.9	230	0.796
AISM–2220–1R2K	1.20	10	70	0.035	1700	7.96	AISM–2220–151K	150	20	4.8	2.2	210	0.796
AISM–2220–1R5K	1.50	10	55	0.04	1600	7.96	AISM–2220–181K	180	20	4.4	2.8	190	0.796
AISM–2220–1R8K	1.80	10	47	0.05	1400	7.96	AISM–2220–221K	220	20	3.9	3.4	170	0.796
AISM–2220–2R2K	2.20	10	42	0.06	1300	7.96	AISM–2220–271K	270	20	3.6	4.2	155	0.796
AISM–2220–2R7K	2.70	10	37	0.07	1200	7.96	AISM–2220–331K	330	20	3.2	4.9	140	0.796
AISM–2220–3R3K	3.30	10	34	0.08	1120	7.96	AISM–2220–391K	390	20	2.9	5.8	130	0.796
AISM–2220–3R9K	3.90	10	32	0.09	1050	7.96	AISM–2220–471K	470	20	2.6	7.0	120	0.796
AISM–2220–4R7K	4.70	10	29	0.11	950	7.96	AISM–2220–561K	560	20	2.4	8.5	110	0.796
AISM–2220–5R6K	5.60	10	26	0.13	880	7.96	AISM–2220–681K	680	20	2.2	10	100	0.796
AISM–2220–6R8K	6.80	10	24	0.15	810	7.96	AISM–2220–821K	820	20	2.0	13	90	0.796
AISM–2220–8R2K	8.20	10	22	0.18	750	7.96	AISM–2220–102K	1000	20	1.8	15	85	0.252
AISM–2220–100K	10.00	10	19	0.21	690	2.52	AISM–2220–122J	1200	30	1.5	17	75	0.252
AISM–2220–120K	12.00	10	17	0.25	630	2.52	AISM–2220–152J	1500	30	1.4	20	70	0.252
AISM–2220–150K	15.00	10	16	0.30	580	2.52	AISM–2220–182J	1800	30	1.3	30	60	0.252
AISM–2220–180K	18.00	10	14	0.36	530	2.52	AISM–2220–222J	2200	30	1.2	35	55	0.252
AISM–2220–220K	22.00	10	13	0.43	480	2.52	AISM–2220–272J	2700	30	1.1	55	45	0.252
AISM–2220–270K	27.00	10	11.5	0.52	440	2.52	AISM–2220–332J	3300	30	1.0	60	40	0.252
AISM–2220–330K	33.00	10	10.5	0.62	400	2.52	AISM–2220–392J	3900	30	1.0	70	38	0.252
AISM–2220–390K	39.00	10	9.5	0.72	370	2.52	AISM–2220–472J	4700	30	0.9	78	36	0.252
AISM–2220–470K	47.00	10	8.5	0.85	340	2.52	AISM–2220–562J	5600	30	0.8	85	33	0.252
AISM–2220–560K	56.00	10	7.8	1.0	310	2.52	AISM–2220–682J	6800	30	0.7	110	30	0.252
AISM–2220–680K	68.00	10	7.0	1.2	290	2.52	AISM–2220–822J	8200	30	0.6	125	28	0.252
AISM–2220–820K	82.00	10	6.4	1.4	270	2.52	AISM–2220–103J	10000	20	0.5	150	25	0.0796
AISM–2220–101K	100	20	6.0	1.6	250	0.796							

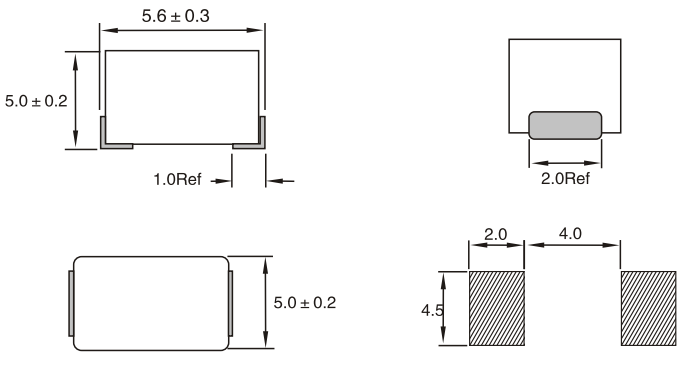
Note:1. J ± 5,%=K= ± 10%,M= ± 20%,

TECHNICAL INFORMATION:

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

Note:All specifications subject to change without notice.

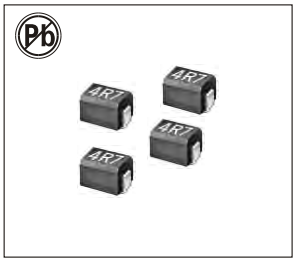
PHYSICAL CHARACTERISTICS:



Dimensions: (mm)

HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1210C SERIES



FEATURES:

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

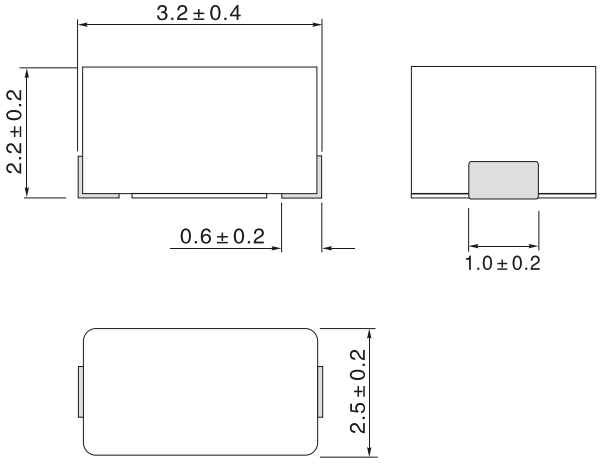
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1210C–1R0M	1	± 20%	10	7.96	100	0.156	770
AISM1210C–1R5M	1.5	± 20%	10	7.96	80	0.195	580
AISM1210C–2R2M	2.2	± 20%	10	7.96	65	0.260	480
AISM1210C–3R3M	3.3	± 20%	10	7.96	55	0.325	400
AISM1210C–4R7M	4.7	± 20%	10	7.96	45	0.520	320
AISM1210C–6R8M	6.8	± 20%	10	7.96	35	0.650	280
AISM1210C–100K	10	± 10%	15	2.52	28	1.105	220
AISM1210C–150K	15	± 10%	15	2.52	25	1.69	180
AISM1210C–220K	22	± 10%	15	2.52	20	2.60	145
AISM1210C–330K	33	± 10%	15	2.52	15	3.64	115
AISM1210C–390K	39	± 10%	15	2.52	14	4.50	110
AISM1210C–470K	47	± 10%	15	2.52	13	5.46	105
AISM1210C–680K	68	± 10%	15	2.52	10	8.45	85
AISM1210C–820K	82	± 10%	15	2.52	9	8.71	80
AISM1210C–101K	100	± 10%	15	0.796	8	9.14	75

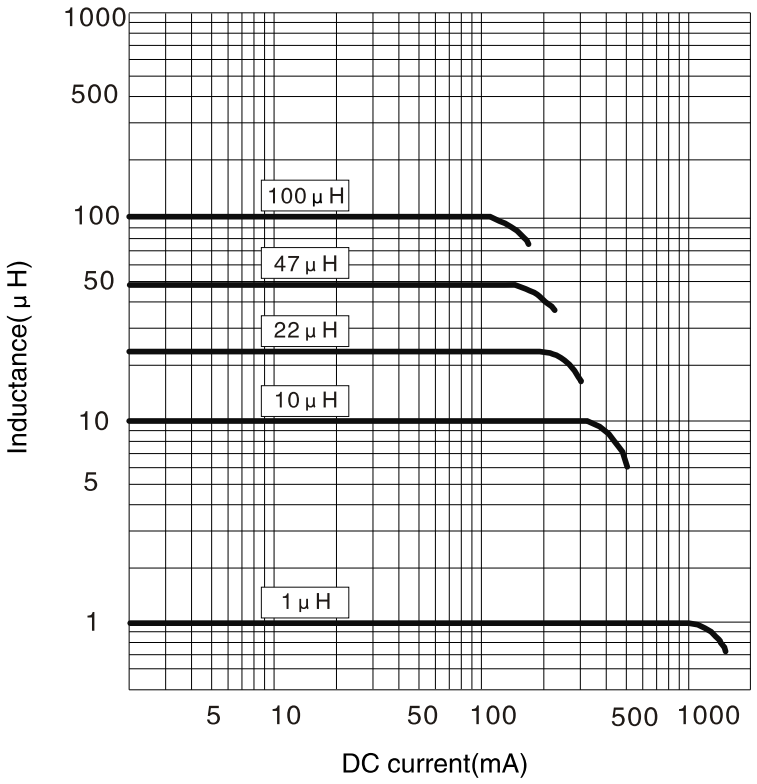
PHYSICAL CHARACTERISTICS



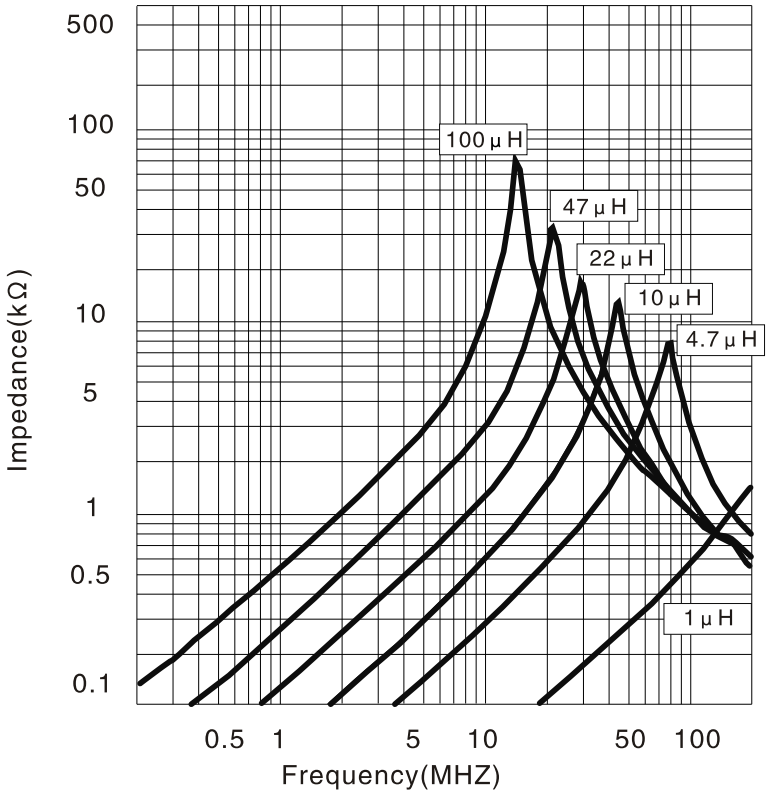
Winding

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

DC BISE CURVE

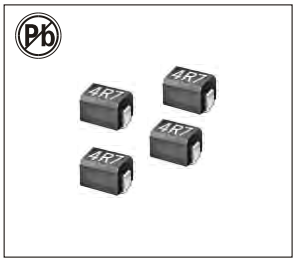


IMPEDANCE VS FREQUENCY CURVE



HIGH CURRENT SURFACE MOUNT WOUND MOLDED CHIP INDUCTORS

AISM1812C SERIES



FEATURES:

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

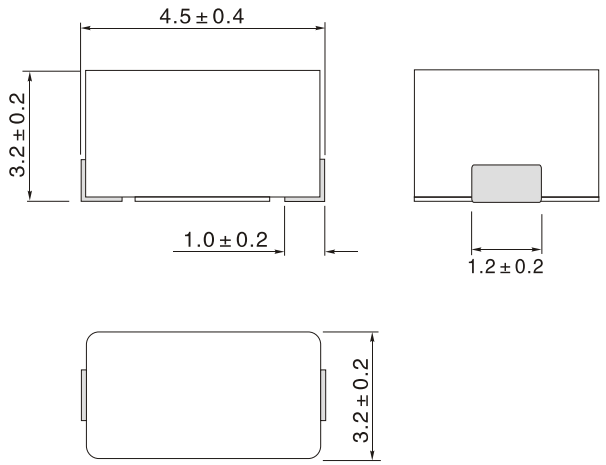
APPLICATIONS:

- Communication
- Equipment
- Instrument
- Video & audio

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (uH)	Inductance Tolerance (%)	Q min.	Test Frequency L,Q (MHz)	Self–resonant Frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
AISM1812C–1R0K	1.0	± 10%	10	7.96	180	0.11	1050
AISM1812C–1R2K	1.2	± 10%	10	7.96	160	0.12	1000
AISM1812C–1R5K	1.5	± 10%	10	7.96	130	0.15	950
AISM1812C–1R8K	1.8	± 10%	10	7.96	100	0.16	900
AISM1812C–2R2K	2.2	± 10%	10	7.96	80	0.18	850
AISM1812C–2R7K	2.7	± 10%	10	7.96	60	0.20	800
AISM1812C–3R3K	3.3	± 10%	10	7.96	45	0.22	750
AISM1812C–3R9K	3.9	± 10%	10	7.96	40	0.24	700
AISM1812C–4R7K	4.7	± 10%	10	7.96	35	0.27	650
AISM1812C–5R6K	5.6	± 10%	10	7.96	30	0.30	650
AISM1812C–6R8K	6.8	± 10%	10	7.96	28	0.35	600
AISM1812C–8R2K	8.2	± 10%	10	7.96	25	0.40	600
AISM1812C–100K	10	± 10%	10	2.52	22	0.50	550
AISM1812C–120K	12	± 10%	10	2.52	21	0.60	500
AISM1812C–150K	15	± 10%	10	2.52	20	0.70	450
AISM1812C–180K	18	± 10%	10	2.52	19	0.80	400
AISM1812C–220K	22	± 10%	10	2.52	18	0.9	370
AISM1812C–270K	27	± 10%	10	2.52	16	1.2	330
AISM1812C–330K	33	± 10%	10	2.52	14	1.4	300
AISM1812C–390K	39	± 10%	10	2.52	12	1.6	280
AISM1812C–470K	47	± 10%	10	2.52	11.5	1.9	260
AISM1812C–560K	56	± 10%	10	2.52	11	2.2	240
AISM1812C–680K	68	± 10%	10	2.52	10	2.6	220
AISM1812C–820K	82	± 10%	10	2.52	9	3.5	200
AISM1812C–101K	100	± 10%	20	0.796	8	4.0	180
AISM1812C–121K	120	± 10%	20	0.796	7.5	4.5	160
AISM1812C–151K	150	± 10%	20	0.796	7	6.5	140
AISM1812C–181K	180	± 10%	20	0.796	6.5	7.5	120
AISM1812C–221K	220	± 10%	20	0.796	5.5	9.0	120
AISM1812C–271K	270	± 10%	20	0.796	5	11	100
AISM1812C–331K	330	± 10%	20	0.796	4	13	90

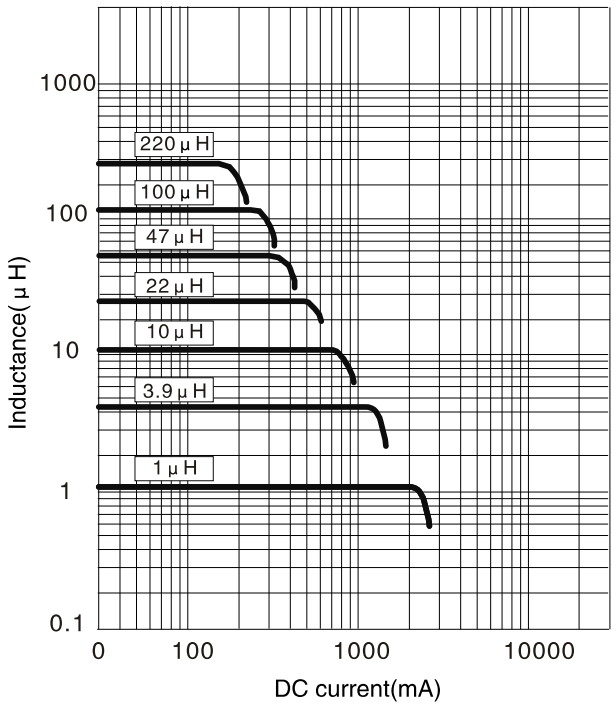
PHYSICAL CHARACTERISTICS



Winding

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

DC BISE CURVE



IMPEDANCE VS FREQUENCY CURVE