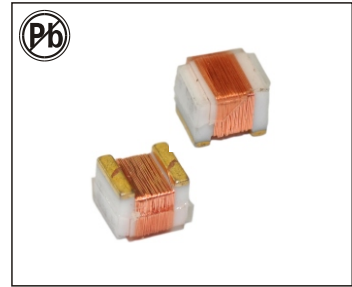


SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

AISC1008 SERIES



FEATURES:

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

COMMON APPLICATIONS:

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

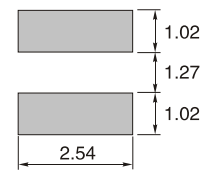
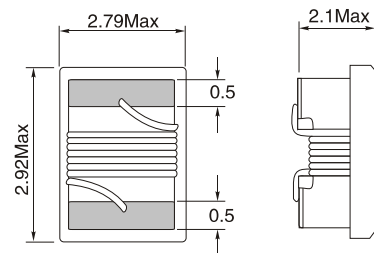
ELECTRICAL CHARACTERISTICS: TECHNICAL INFORMATION:

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

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

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



PCB LAYOUT

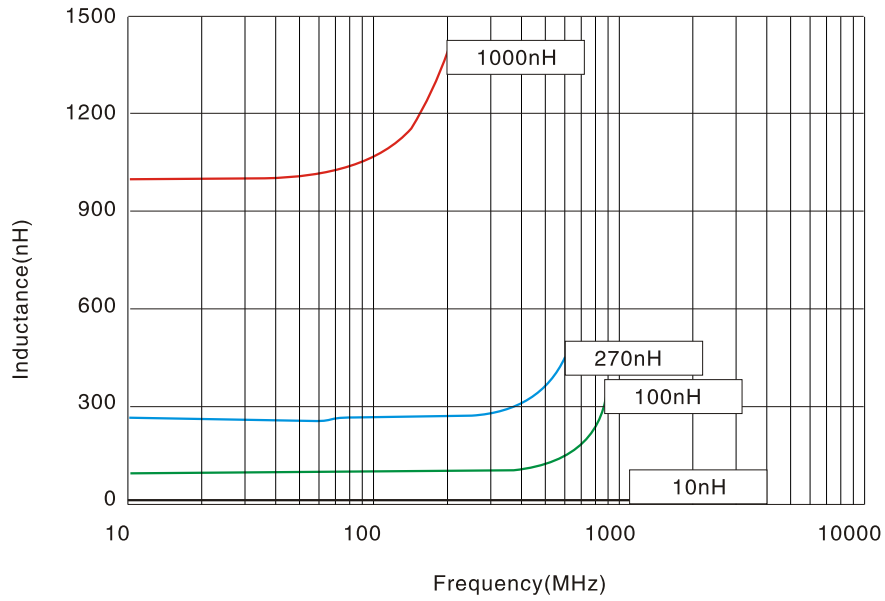
Winding



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

SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency

