

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



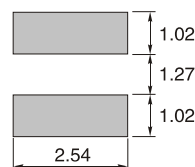
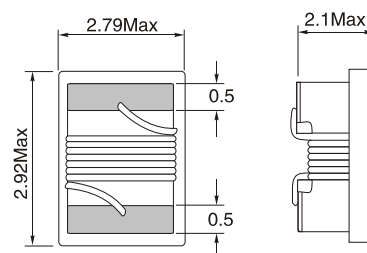
ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

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

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

Dimensions:(mm)



PCB LAYOUT

Winding

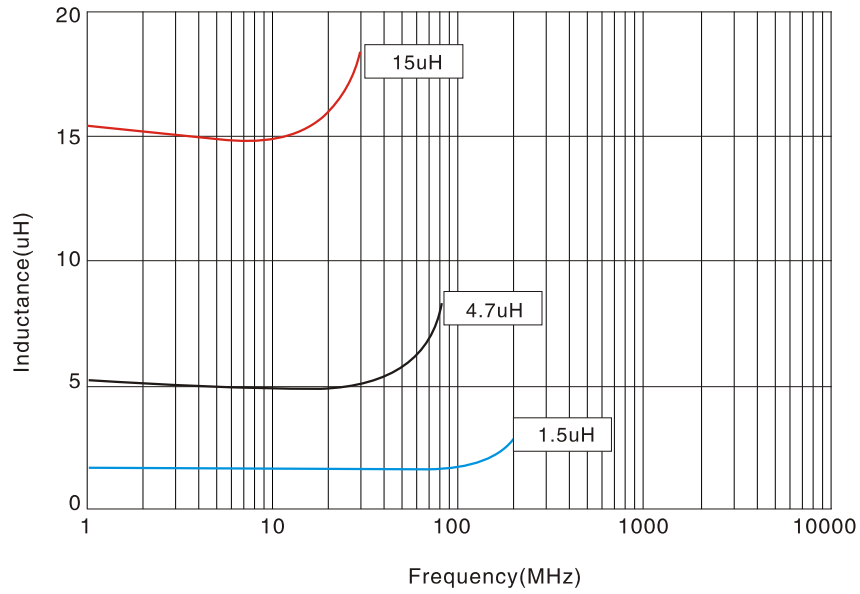


NOTES:

- 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

