

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

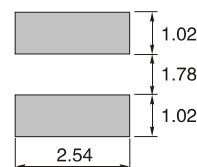
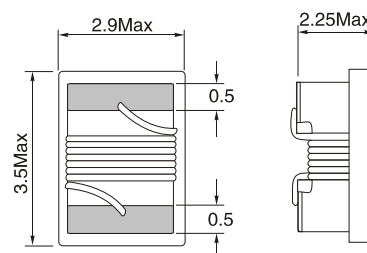


ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

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

Dimensions:(mm)



PCB LAYOUT

Winding



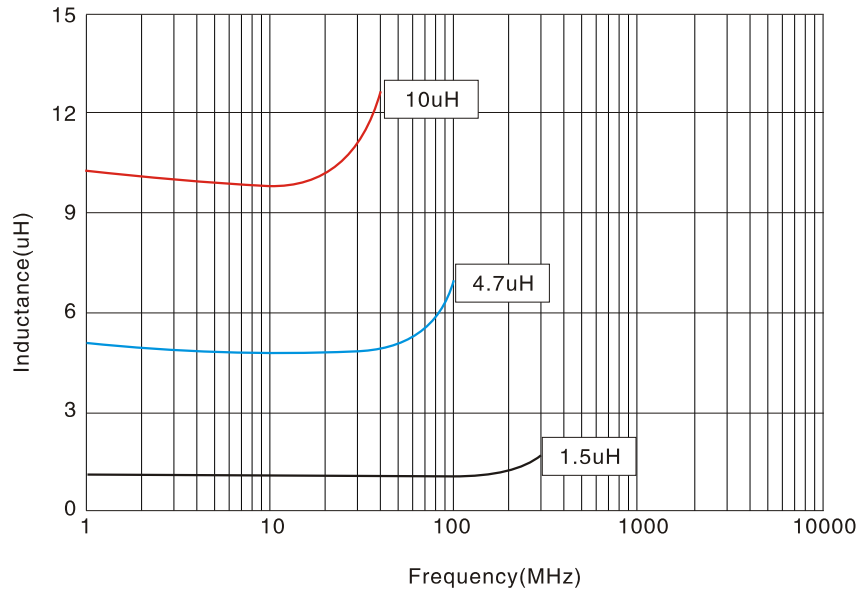
□ G= ± 2%, J= ± 5%, K= ± 10%,
M= ± 20%, N= ± 30%

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

