

SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

AISC0603F SERIES

FEATURES:

- Miniature 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

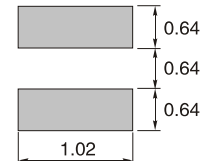
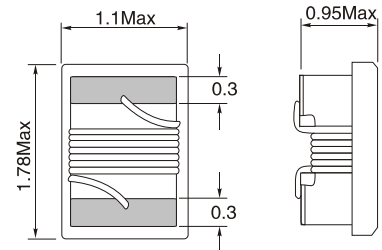


ELECTRICAL CHARACTERISTICS:

PHYSICAL CHARACTERISTICS:

Part Number	L(nH)	Tolerance (%)	Q Min	SRF (MHz) 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

Dimensions:(mm)



PCB LAYOUT

Winding



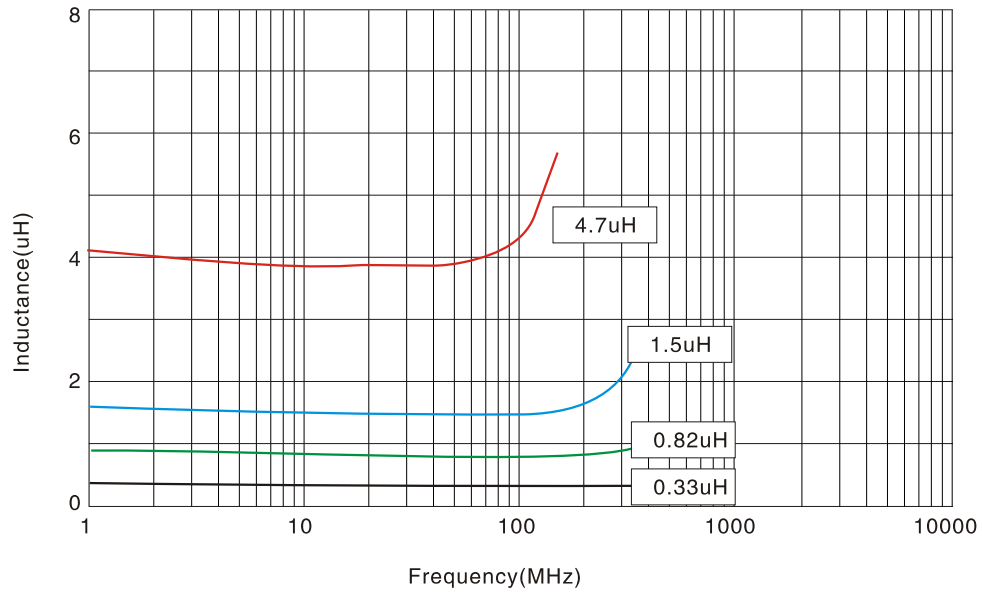
□ G= ± 2%, J= ± 5%, K= ± 10%, M= ± 20%, N= ± 30%

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

