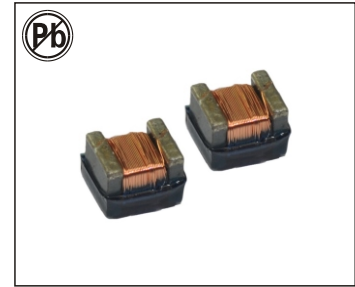


# SURFACE-MOUNT WIRE WOUND FERRITE CHIP INDUCTORS

## AISC1812F SERIES



### FEATURES:

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

### APPLICATIONS:

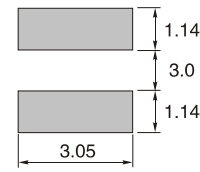
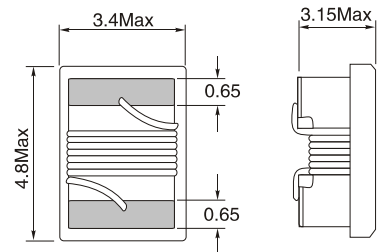
- Low DC resistance?high current and high inductance and high reliability

### 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



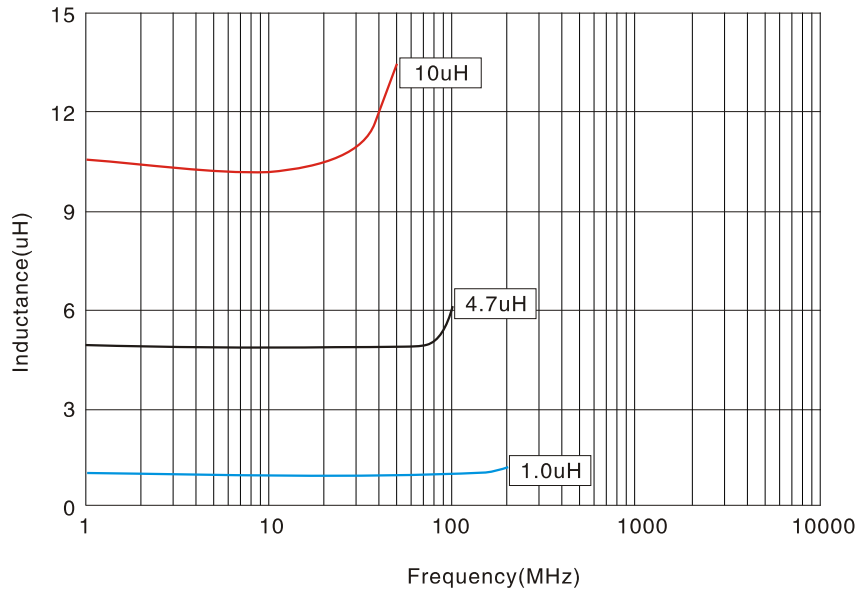
□ G= ± 2%, J= ± 5%, K= ± 10%,  
M= ± 20%, N= ± 30%

### NOTES:

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

# SURFACE-MOUNT WIRE WOUND CERAMIC CHIP INDUCTORS

Inductance vs Frequency



Q vs Frequency

