



# SURFACE-MOUNT WIRE-WOUND FERRITE CHIP INDUCTORS

## AISC-1812 SERIES

### FEATURES:

- Construction: Ferrite Core
- High frequency design
- Excellent Q values
- Excellent SRF
- High reliability
- Excellent thermal stability

### OPTIONS:

- Packaging: Tape & Reel is standard (Qty: 500pcs)  
Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- Modems
- Mobile Radios
- Cordless Telephones
- Global Positioning Systems
- Telecommunications Systems

### ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Tol %	Q Min	Test Freq MHz	SRF MHz Min	DCR Ω Max	IDC Max mA	Part Number	L (μH)	Tol %	Q Min	Test Freq MHz	SRF MHz Min	DCR Ω Max	IDC Max mA
AISC-1812F-1R0K	1.0	± 10	30	7.96	200	0.20	1000	AISC-1812F-390K	39	± 10	28	2.52	14	1.8	350
AISC-1812F-1R2K	1.2	± 10	30	7.96	200	0.21	1000	AISC-1812F-470K	47	± 10	28	2.52	14	2.0	300
AISC-1812F-1R5K	1.5	± 10	30	7.96	180	0.22	1000	AISC-1812F-560K	56	± 10	25	2.52	14	2.2	290
AISC-1812F-1R8K	1.8	± 10	35	7.96	160	0.24	950	AISC-1812F-680K	68	± 10	20	2.52	5.4	2.4	260
AISC-1812F-2R2K	2.2	± 10	35	7.96	150	0.25	900	AISC-1812F-820K	82	± 10	20	2.52	5.4	2.8	240
AISC-1812F-2R7K	2.7	± 10	35	7.96	145	0.30	850	AISC-1812F-101K	100	± 10	20	0.796	4.2	3.0	220
AISC-1812F-3R3K	3.3	± 10	35	7.96	140	0.32	800	AISC-1812F-121K	120	± 10	20	0.796	3.3	3.3	220
AISC-1812F-3R9K	3.9	± 10	35	7.96	135	0.40	750	AISC-1812F-151K	150	± 10	20	0.796	3.0	3.7	200
AISC-1812F-4R7K	4.7	± 10	35	7.96	120	0.50	700	AISC-1812F-181K	180	± 10	20	0.796	3.0	4.0	200
AISC-1812F-5R6K	5.6	± 10	35	7.96	110	0.55	650	AISC-1812F-221K	220	± 10	15	0.796	2.5	7.0	170
AISC-1812F-6R8K	6.8	± 10	35	7.96	98	0.80	600	AISC-1812F-271K	270	± 10	15	0.796	2.5	7.6	160
AISC-1812F-8R2K	8.2	± 10	35	7.96	95	0.85	600	AISC-1812F-331K	330	± 10	15	0.796	2.0	8.5	150
AISC-1812F-100K	10	± 10	30	2.52	75	1.0	550	AISC-1812F-391K	390	± 10	15	0.796	2.0	9.2	130
AISC-1812F-120K	12	± 10	30	2.52	70	1.1	550	AISC-1812F-471K	470	± 10	10	0.796	2.0	10.4	120
AISC-1812F-150K	15	± 10	30	2.52	60	1.2	500	AISC-1812F-561K	560	± 10	10	0.796	2.0	12.0	110
AISC-1812F-180K	18	± 10	30	2.52	29	1.2	500	AISC-1812F-681K	680	± 10	10	0.796	1.8	14.0	100
AISC-1812F-220K	22	± 10	30	2.52	25	1.3	450	AISC-1812F-821K	820	± 10	10	0.796	1.6	15.0	95
AISC-1812F-270K	27	± 10	28	2.52	22	1.5	400	AISC-1812F-102K	1000	± 10	10	0.252	1.6	16.5	90
AISC-1812F-330K	33	± 10	28	2.52	18	1.7	350								

### TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Inductance: HP4191A  
Q: HP4291A  
SRF: HP8553B  
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
- Marking: EIA color code

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

### PHYSICAL CHARACTERISTICS:

