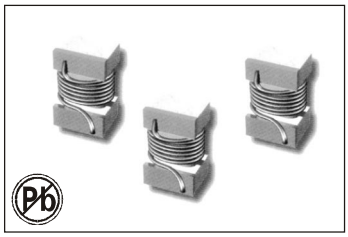
SURFACE-MOUNT WIRE-WOUND CERAMIC CHIP INDUCTORS

AISC-1210 SERIES



FEATURES:

- Construction:Ceramic to 1.2 μH
- 1210F Ferrite 1.5 μH to 470 μH
- High frequency design
- Excellent Q values
- Excellent SRF
- High reliability
- Excellent thermal stability

OPTIONS:

- Packaging:Tape & Reel is standard (Qty:3000pcs) Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

COMMON APPLCATIONS:

- 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
AISC-1210-0039K	.0039	±10	30	1500	6000	0.050	1000
AISC-1210-0047K	.0047	±10	30	1500	5800	0.065	1000
AISC-1210-0082K	.0082	±10	40	1000	5500	0.070	1000
AISC-1210-010J	0.010	±5	40	1000	4000	0.080	1000
AISC-1210-012J	0.012	±5	40	500	3200	0.080	1000
AISC-1210-015J	0.015	±5	50	500	3200	0.100	1000
AISC-1210-018J	0.018	±5	50	350	2800	0.100	1000
AISC-1210-022J	0.022	±5	50	350	2200	0.100	1000
AISC-1210-027J	0.027	±5	55	350	1800	0.110	1000
AISC-1210-033J	0.033	±5	55	350	1800	0.110	1000
AISC-1210-039J	0.039	±5	55	350	1800	0.120	1000
AISC-1210-043J	0.043	±5	55	350	1500	0.120	1000
AISC-1210-047J	0.047	±5	55	350	1500	0.130	1000
AISC-1210-056J	0.056	±5	55	350	1450	0.140	900
AISC-1210-068J	0.068	±5	55	350	1200	0.150	900
AISC-1210-082J	0.082	±5	55	350	1200	0.200	850
AISC-1210-R10J	0.01	±5	55	350	1100	0.210	800
AISC-1210-R12J	0.12	±5	60	100	1100	0.210	750
AISC-1210-R15J	0.15	±5	60	100	950	0.250	700
AISC-1210-R18J	0.18	±5	60	100	900	0.300	670
AISC-1210-R22J	0.22	±5	60	100	760	0.320	630
AISC-1210-R27J	0.27	±5	55	100	730	0.340	590
AISC-1210-R33J	0.33	±5	45	100	650	0.380	530
AISC-1210-R39J	0.39	±5	45	50	600	0.580	490
AISC-1210-R47J	0.47	±5	45	50	550	0.800	460
AISC-1210-R56J	0.56	±5	45	50	470	1.100	430
AISC-1210-R68J	0.68	±5	45	50	450	1.200	400
AISC-1210-R82J	0.82	±5	45	50	420	1.820	320
AISC-1210-1R0J	1.0	±5	45	50	400	1.850	300
AISC-1210-1R2J	1.2	±5	45	25.2	380	1.870	310
SIAC-1210-1R5J	1.5	±5	30	25.2	160	1.950	310
AISC-1210-1R8J	1.8	±5	30	25.2	160	2.250	310
AISC-1210-2R2J	2.2	±5	30	25.2	160	2.410	300
AISC-1210-2R7J	2.7	±5	28	25.2	140	2.850	300
AISC-1210-3R3J	3.3	±5	25	7.96	110	3.120	290
AISC-1210-3R9J	3.9	±5	25	7.96	100	3.600	280

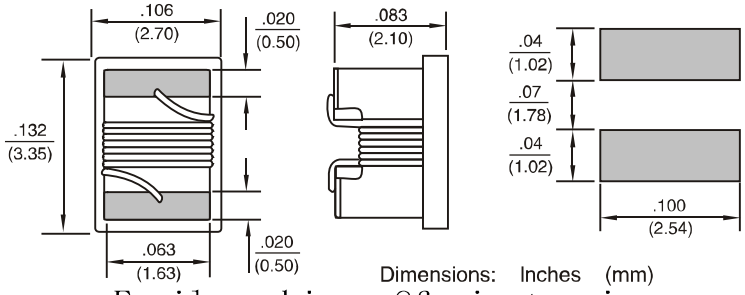
Part Number	L (μH)	Tol %	Q Min	Test Freq MHz	SRF MHz Min	DCR Ω Max	IDC Max mA
AISC-1210-4R7K	4.70	±10	25	7.96	75	9.0	280
AISC-1210-5R6K	5.60	±10	20	7.96	70	8.0	250
AISC-1210-6R8K	6.80	±10	20	7.96	70	5.0	230
AISC-1210-8R6K	8.60	±10	20	7.96	55	4.0	160
AISC-1210F-1R2K	1.2	±10	28	7.96	210	0.3	450
AISC-1210F-1R5K	1.5	±10	28	7.96	200	0.4	450
AISC-1210F-1R8K	1.8	±10	28	7.96	195	0.5	450
AISC-1210F-2R2K	2.2	±10	28	7.96	175	0.6	450
AISC-1210F-2R7K	2.7	±10	28	7.96	160	0.7	420
AISC-1210F-3R3K	3.3	±10	28	7.96	120	1.1	380
AISC-1210F-3R9K	3.9	±10	28	7.96	110	1.2	360
AISC-1210F-4R7K	4.7	±10	28	7.96	105	1.3	350
AISC-1210F-5R6K	5.6	±10	28	7.96	100	2.0	320
AISC-1210F-6R8K	6.8	±10	28	7.96	80	1.5	310
AISC-1210F-8R2K	8.2	±10	28	7.96	75	1.6	305
AISC-1210F-100K	10	±10	25	2.52	70	1.0	300
AISC-1210F-120K	12	±10	25	2.52	65	1.2	265
AISC-1210F-150K	15	±10	25	2.52	60	2.0	225
AISC-1210F-180K	18	±10	25	2.52	45	2.1	210
AISC-1210F-220K	22	±10	25	2.52	35	2.2	200
AISC-1210F-270K	27	±10	25	2.52	30	2.6	180
AISC-1210F-330K	33	±10	25	2.52	23	2.9	160
AISC-1210F-390K	39	±10	25	2.52	21	3.7	150
AISC-1210F-470K	47	±10	25	2.52	20	4.8	140
AISC-1210F-560K	56	±10	25	2.52	15	5.1	125
AISC-1210F-680K	68	±10	25	2.52	15	4.7	110
AISC-1210F-820K	82	±10	25	2.52	13	5.6	100
AISC-1210F-101K	100	±10	15	0.796	6.0	6.5	95
SIAC-1210F-121K	120	±10	15	0.796	5.0	7.1	85
AISC-1210F-151K	150	±10	15	0.796	4.5	8.2	80
AISC-1210F-181K	180	±10	15	0.796	3.0	12.5	70
AISC-1210F-221K	220	±10	15	0.796	3.0	15.3	65
AISC-1210F-271K	270	±10	15	0.796	2.5	16.4	60
AISC-1210F-331K	330	±10	15	0.796	2.3	17.8	55
AISC-1210F-391K	390	±10	10	0.796	2.2	19.5	45
AISC-1210F-471K	470	±10	10	0.796	2.0	21.0	40

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
  Inductance: HP4191A Q:HP4291A
  SRF:HP8553B RDC:measured @ 25℃
- Operating Temperature:
  Ceramic: −55℃ to +125℃Ferrite: −55℃ to +85℃
- Pad metalization:
  Ceramic:Tungsten-nickel with gold flash
  Ferrite:Silver-nickel with 90/10 solder Optional gold flash
- Solder methods: Wave, Reflow, Vapor Phase
- Solderability: Max 260℃ for 10 seconds
- Marking: EIA color code

Note:1. K=±10%,M=±20%,N=±30%

PHYSICAL CHARACTERISTICS:



Dimensions: Inches (mm)