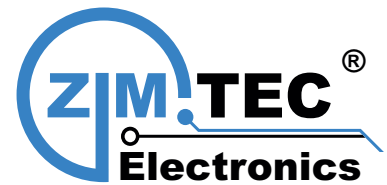


# AISC-1210 SERIES

## SURFACE-MOUNT WIRE-WOUND CERAMIC CHIP INDUCTORS

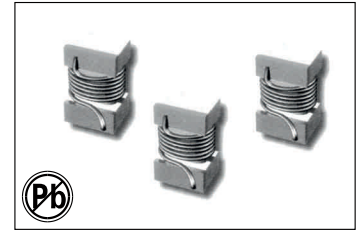


### FEATURES:

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

### COMMON APPLICATIONS:

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



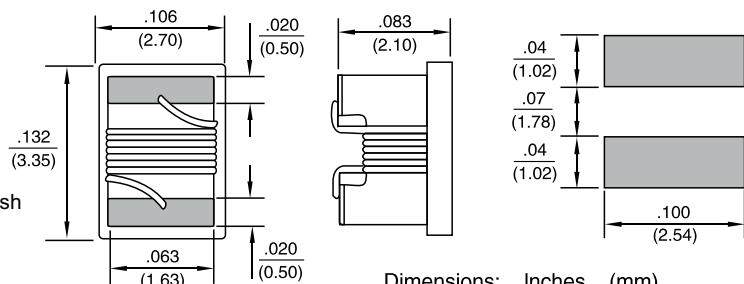
### ELECTRICAL CHARACTERISTICS:

Part Number	L ( $\mu$ H)	Tol %	Q Min	Test Freq MHz	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Part Number	L ( $\mu$ H)	Tol %	Q Min	Test Freq MHz	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA
AISC-1210-0039K	.0039	$\pm 10$	30	1500	6000	0.050	1000	AISC-1210-4R7K	4.70	$\pm 10$	25	7.96	75	9.0	280
AISC-1210-0047K	.0047	$\pm 10$	30	1500	5800	0.065	1000	AISC-1210-5R6K	5.60	$\pm 10$	20	7.96	70	8.0	250
AISC-1210-0082K	.0082	$\pm 10$	40	1000	5500	0.070	1000	AISC-1210-6R8K	6.80	$\pm 10$	20	7.96	70	5.0	230
AISC-1210-010J	0.010	$\pm 5$	40	1000	4000	0.080	1000	AISC-1210-8R6K	8.60	$\pm 10$	20	7.96	55	4.0	160
AISC-1210-012J	0.012	$\pm 5$	40	500	3200	0.080	1000	AISC-1210F-1R2K	1.2	$\pm 10$	28	7.96	210	0.3	450
AISC-1210-015J	0.015	$\pm 5$	50	500	3200	0.100	1000	AISC-1210F-1R5K	1.5	$\pm 10$	28	7.96	200	0.4	450
AISC-1210-018J	0.018	$\pm 5$	50	350	2800	0.100	1000	AISC-1210F-1R8K	1.8	$\pm 10$	28	7.96	195	0.5	450
AISC-1210-022J	0.022	$\pm 5$	50	350	2200	0.100	1000	AISC-1210F-2R2K	2.2	$\pm 10$	28	7.96	175	0.6	450
AISC-1210-027J	0.027	$\pm 5$	55	350	1800	0.110	1000	AISC-1210F-2R7K	2.7	$\pm 10$	28	7.96	160	0.7	420
AISC-1210-033J	0.033	$\pm 5$	55	350	1800	0.110	1000	AISC-1210F-3R3K	3.3	$\pm 10$	28	7.96	120	1.1	380
AISC-1210-039J	0.039	$\pm 5$	55	350	1800	0.120	1000	AISC-1210F-3R9K	3.9	$\pm 10$	28	7.96	110	1.2	360
AISC-1210-043J	0.043	$\pm 5$	55	350	1500	0.120	1000	AISC-1210F-4R7K	4.7	$\pm 10$	28	7.96	105	1.3	350
AISC-1210-047J	0.047	$\pm 5$	55	350	1500	0.130	1000	AISC-1210F-5R6K	5.6	$\pm 10$	28	7.96	100	2.0	320
AISC-1210-056J	0.056	$\pm 5$	55	350	1450	0.140	900	AISC-1210F-6R8K	6.8	$\pm 10$	28	7.96	80	1.5	310
AISC-1210-068J	0.068	$\pm 5$	55	350	1200	0.150	900	AISC-1210F-8R2K	8.2	$\pm 10$	28	7.96	75	1.6	305
AISC-1210-082J	0.082	$\pm 5$	55	350	1200	0.200	850	AISC-1210F-100K	10	$\pm 10$	25	2.52	70	1.0	300
AISC-1210-R10J	0.01	$\pm 5$	55	350	1100	0.210	800	AISC-1210F-120K	12	$\pm 10$	25	2.52	65	1.2	265
AISC-1210-R12J	0.12	$\pm 5$	60	100	1100	0.210	750	AISC-1210F-150K	15	$\pm 10$	25	2.52	60	2.0	225
AISC-1210-R15J	0.15	$\pm 5$	60	100	950	0.250	700	AISC-1210F-180K	18	$\pm 10$	25	2.52	45	2.1	210
AISC-1210-R18J	0.18	$\pm 5$	60	100	900	0.300	670	AISC-1210F-220K	22	$\pm 10$	25	2.52	35	2.2	200
AISC-1210-R22J	0.22	$\pm 5$	60	100	760	0.320	630	AISC-1210F-270K	27	$\pm 10$	25	2.52	30	2.6	180
AISC-1210-R27J	0.27	$\pm 5$	55	100	730	0.340	590	AISC-1210F-330K	33	$\pm 10$	25	2.52	23	2.9	160
AISC-1210-R33J	0.33	$\pm 5$	45	100	650	0.380	530	AISC-1210F-390K	39	$\pm 10$	25	2.52	21	3.7	150
AISC-1210-R39J	0.39	$\pm 5$	45	50	600	0.580	490	AISC-1210F-470K	47	$\pm 10$	25	2.52	20	4.8	140
AISC-1210-R47J	0.47	$\pm 5$	45	50	550	0.800	460	AISC-1210F-560K	56	$\pm 10$	25	2.52	15	5.1	125
AISC-1210-R56J	0.56	$\pm 5$	45	50	470	1.100	430	AISC-1210F-680K	68	$\pm 10$	25	2.52	15	4.7	110
AISC-1210-R68J	0.68	$\pm 5$	45	50	450	1.200	400	AISC-1210F-820K	82	$\pm 10$	25	2.52	13	5.6	100
AISC-1210-R82J	0.82	$\pm 5$	45	50	420	1.820	320	AISC-1210F-101K	100	$\pm 10$	15	0.796	6.0	6.5	95
AISC-1210-1R0J	1.0	$\pm 5$	45	50	400	1.850	300	SIAC-1210F-121K	120	$\pm 10$	15	0.796	5.0	7.1	85
AISC-1210-1R2J	1.2	$\pm 5$	45	25.2	380	1.870	310	AISC-1210F-151K	150	$\pm 10$	15	0.796	4.5	8.2	80
SIAC-1210-1R5J	1.5	$\pm 5$	30	25.2	160	1.950	310	AISC-1210F-181K	180	$\pm 10$	15	0.796	3.0	12.5	70
AISC-1210-1R8J	1.8	$\pm 5$	30	25.2	160	2.250	310	AISC-1210F-221K	220	$\pm 10$	15	0.796	3.0	15.3	65
AISC-1210-2R2J	2.2	$\pm 5$	30	25.2	160	2.410	300	AISC-1210F-271K	270	$\pm 10$	15	0.796	2.5	16.4	60
AISC-1210-2R7J	2.7	$\pm 5$	28	25.2	140	2.850	300	AISC-1210F-331K	330	$\pm 10$	15	0.796	2.3	17.8	55
AISC-1210-3R3J	3.3	$\pm 5$	25	7.96	110	3.120	290	AISC-1210F-391K	390	$\pm 10$	10	0.796	2.2	19.5	45
AISC-1210-3R9J	3.9	$\pm 5$	25	7.96	100	3.600	280	AISC-1210F-471K	470	$\pm 10$	10	0.796	2.0	21.0	40

### TECHNICAL INFORMATION:

- Testing: (Equivalents acceptable)  
Impedance: HP4195A Q: HP4291A  
SRF: HP8753C RDC: measured @ 25 °C
- Operating Temperature:  
Ceramic: -55 °C to +125 °C  
Ferrite: -55 °C to +85 °C
- 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 °C for 10 seconds
- Marking: EIA color code

### PHYSICAL CHARACTERISTICS:



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Last Update : 01.Jun.2015