

SMD CERAMIC WIRE-WOUND INDUCTORS

AISC-1210-xxx



RoHS
Compliant



3.7 x 2.8 x 2.2mm

FEATURES:

- Ceramic Construction assures the utmost in the thermal stability and high SRF
- Exceptionally high Q compared to non-wire wound inductor, especially at high frequencies
- Inductance values from 3.3nH to 1,200nH available
- Epoxy changes from top partial coverage to full coverage for better wire protection, not affect function or properties

APPLICATIONS:

- Widely applied in the VCO, SAW circuit for GSM, CDMA communication
- Used in hard disk, notebook computer and other electronic equipment.

ELECTRICAL SPECIFICATIONS:

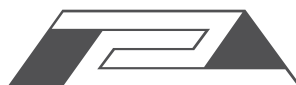
PARAMETERS

ABRACON P/N:	AISC-01210-xxx Series
Operating temperature:	-40°C to +125°C
Storage temperature:	+20°C to +25°C, R.H. 65% (ref.)

Part Number AISC-1210-	L (nH)	Tolerance Available %	L/Q Test Freq (MHz)	Q Min	SRF Min (MHz)	R _{DC} Max (Ω)	I _{rms} Max (mA)	Color Code		
								1st	2nd	3rd
3N3	3.3	J,K	100/300	30	6200	0.05	1000	BLK	ORN	BLK
6N8	6.8	J,K	100/300	30	5500	0.07	1000	BLK	BLU	BLK
10N	10	G,J,K	100/300	40	4000	0.08	1000	BRN	BLK	BLK
12N	12	G,J,K	100/300	40	3200	0.08	1000	BRN	RED	BLK
15N	15	G,J,K	100/300	40	3200	0.1	1000	BRN	GRN	BLK
18N	18	G,J,K	100/300	50	2800	0.1	1000	BRN	GRY	BLK
22N	22	G,J,K	100/300	50	2200	0.1	1000	RED	RED	BLK
27N	27	G,J,K	100/300	50	1800	0.11	1000	RED	VIO	BLK
33N	33	G,J,K	100/300	55	1800	0.11	1000	ORN	ORN	BLK
39N	39	G,J,K	100/300	55	1800	0.12	1000	ORN	WHT	BLK
47N	47	G,J,K	100/300	55	1500	0.13	1000	YEL	VIO	BLK
56N	56	G,J,K	100/300	55	1450	0.14	1000	GRN	BLU	BLK
68N	68	G,J,K	100/300	55	1200	0.26	900	BLU	GRY	BLK
82N	82	G,J,K	100/300	55	1200	0.21	900	GRY	RED	BLK
R10	100	G,J,K	100/300	55	1100	0.26	850	BRN	BLK	BRN
R12	120	G,J,K	100/300	60	1100	0.26	800	BRN	RED	BRN
R15	150	G,J,K	100/300	60	950	0.31	750	BRN	GRN	BRN
R18	180	G,J,K	50/300	60	900	0.43	700	BRN	GRY	BRN
R22	220	G,J,K	50/300	60	760	0.5	670	RED	RED	BRN
R27	270	G,J,K	50/300	55	730	0.56	630	RED	VIO	BRN
R33	330	G,J,K	50/150	45	650	0.62	590	ORN	ORN	BRN
R39	390	G,J,K	50/150	45	600	0.75	530	ORN	WHT	BRN
R47	470	G,J,K	50/150	45	550	1.3	490	YEL	VIO	BRN
R56	560	G,J,K	35/150	45	470	1.34	460	GRN	BLU	BRN
R62	620	G,J,K	35/150	45	470	1.58	460	BLU	RED	BRN
R68	680	G,J,K	35/150	45	450	1.58	430	BLU	GRY	BRN
R75	750	G,J,K	35/150	45	440	2.25	320	VIO	GRN	BRN
R82	820	G,J,K	35/150	45	420	1.82	400	GRY	RED	BRN
R91	910	G,J,K	35/150	45	410	2.95	310	WHT	BRN	BRN
1R0	1000	G,J,K	35/150	45	400	2.80	320	BRN	BLK	RED
1R2	1200	G,J,K	35/150	45	380	3.20	300	BRN	RED	RED

Note: I_{rms} for 15°C rise above 25°C ambient.
L/Q Test OSC @200mV.

ABRACON IS
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ABRACON
CORPORATION

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OPTIONS AND PART IDENTIFICATION:

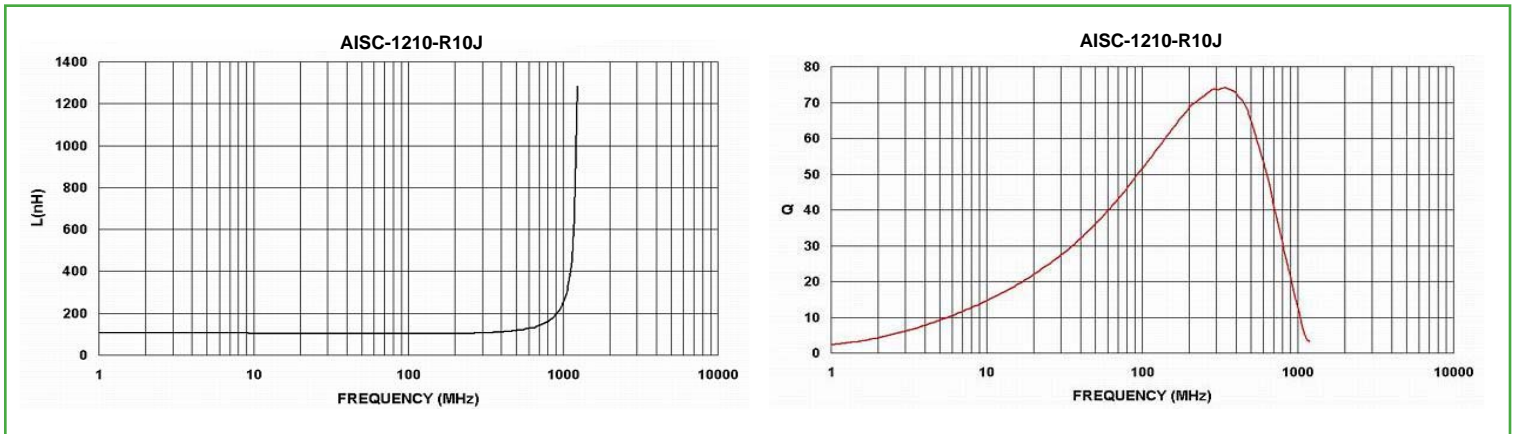
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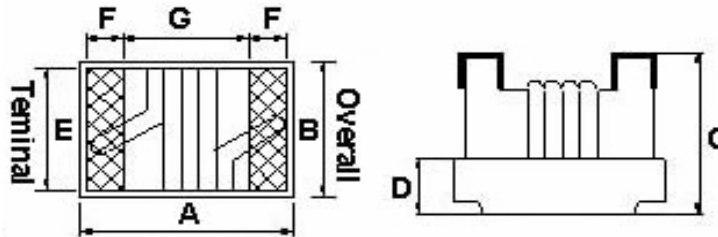
Inductance Code
Please refer to the Table

Tolerance Code	
G	±2%
J	±5%
K	±10%

Packaging	
T	Tape & Reel

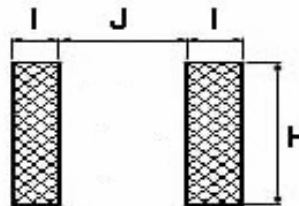


OUTLINE DRAWING:



Part#	A	B	C	D	E	F	G
AISC-1210-xxx	3.7 max (0.146 max)	2.8 max (0.11 max)	2.2 max (0.087 max)	0.9 ref. (0.035) ref.	2.3 ref. (0.091) ref.	0.51 ref. (0.02) ref.	2.18 ref. (0.08) ref.

Recommended Land Pattern



Part#	H	I	J
AISC-1210-xxx	2.7 ref. (0.106 ref.)	1.0 ref. (0.039 ref.)	2.0 ref. (0.079 ref.)

Dimension : Inches (mm)

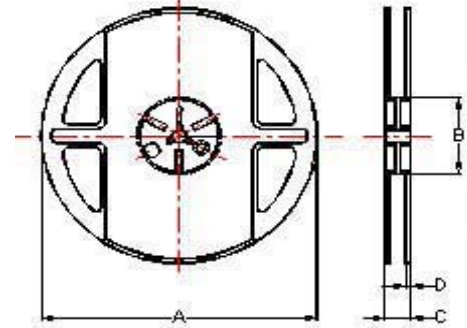
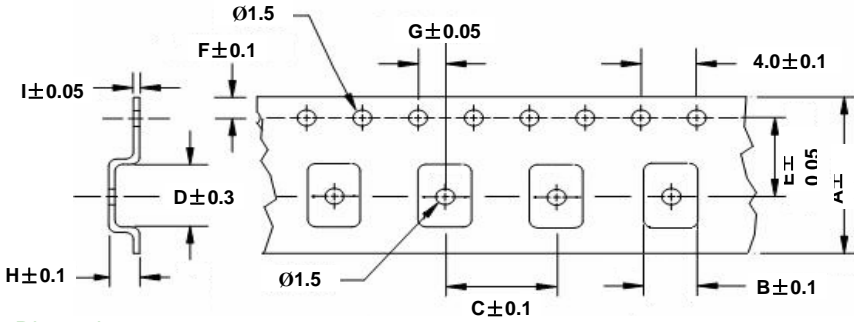
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TAPE & REEL: T= tape and reel (2000 per reel)

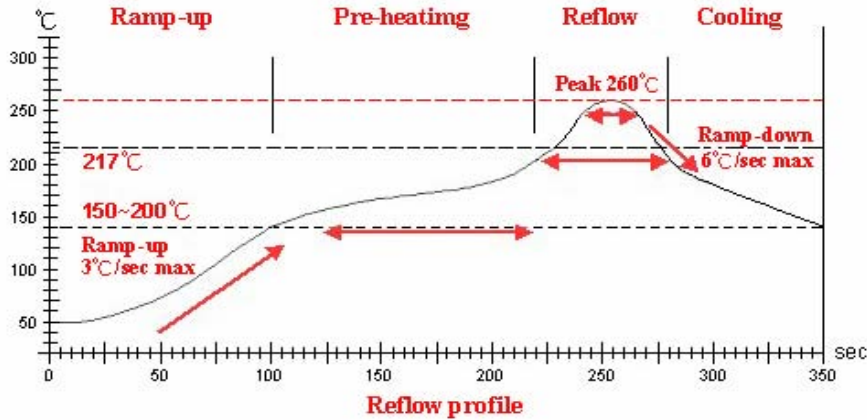


Dimensions: mm

Part#	A	B	C	D	E	F	G	H	I
ASPI-1210-xxx	12.0	2.95	4	3.70	5.5	1.75	2	2.45	0.25

series	A	B	C	D
AISC-1210-xxx	178 ref.	60 ref.	16 ref.	1.4 ref.

REFLOW PROFILE:



Item	Ramp-up	Pre-heating	Reflow	Peak Temp	Coolong
Temperature Scope	R.T. ~ 150°C	150°C~200°C	217°C	260±5°C	Peak Temp. ~ 150°C
Time spec.	--	60 ~ 180 sec	60 ~ 150 sec	20 ~ 40 sec	--

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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