

WIRE WOUND INDUCTOR - CERAMIC or FERRITE

AISC-0805(F)



RoHS
Compliant



2.3 x 1.7 x 1.6mm

FEATURES:

- Ceramic or Ferrite Construction assures the utmost in the thermal stability and high SRF
- Exceptionally high Q compared to non-wirewound inductor, especially at high frequencies
- Inductance values available from 2.2 nH to 68uH; tight tolerance

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:
AISC-0805(F)-xxx

Operating temperature:
-25°C to + 125°C

Storage temperature:
-25°C to + 85°C
70% RH max.

Part Number	L(nH) @Test Freq.	Tolerance (±%)	Q, Min @Test Freq.	SRF Min (MHz)	R _{DC} Max (Ω)	I _{DC} Max (mA)
AISC-0805-R0022	2.2 @ 250 MHz	10,20	40 @ 1500 MHz	>6000	0.1	600
AISC-0805-R0033	3.3 @ 250 MHz	5,10,20	30 @ 1500 MHz	>6000	0.08	600
AISC-0805-R0068	6.8 @ 250 MHz	5,10,20	50 @ 1000 MHz	5000	0.11	600
AISC-0805-R0082	8.2 @ 250 MHz	5,10,20	50 @ 1000 MHz	4800	0.19	600
AISC-0805-R012	12 @ 250 MHz	2,5,10,20	50 @ 500 MHz	4100	0.15	600
AISC-0805-R015	15 @ 250 MHz	5,10,20	50 @ 500 MHz	2900	0.17	600
AISC-0805-R018	18 @ 250 MHz	2,5,10,20	50 @ 500 MHz	3300	0.2	600
AISC-0805-R022	22 @ 250 MHz	2,5,10,20	55 @ 500 MHz	2600	0.22	500
AISC-0805-R027	27 @ 250 MHz	2,5,10,20	60 @ 500 MHz	2500	0.25	500
AISC-0805-R033	33 @ 250 MHz	2,5,10,20	60 @ 500MHz	2200	0.27	500
AISC-0805-R039	39 @ 250 MHz	2,5,10,20	60 @ 500MHz	2100	0.29	500
AISC-0805-R047	47 @ 200 MHz	2,5,10,20	60 @ 500MHz	1750	0.31	500
AISC-0805-R056	56 @ 200 MHz	2,5,10,20	60 @ 500MHz	1650	0.32	500
AISC-0805-R068	68 @ 200 MHz	2,5,10,20	60 @ 500MHz	1500	0.38	500
AISC-0805-R082	82 @ 150 MHz	2,5,10,20	60 @ 500MHz	1400	0.42	400
AISC-0805-R10	100 @ 150 MHz	2,5,10,20	60 @ 500MHz	1200	0.46	400
AISC-0805-R12	120 @ 150 MHz	2,5,10,20	50 @ 250 MHz	1200	0.51	400
AISC-0805-R15	150 @ 100 MHz	2,5,10,20	50 @ 250 MHz	1000	0.56	400
AISC-0805-R18	180 @ 100 MHz	2,5,10,20	50 @ 250 MHz	950	0.64	400
AISC-0805-R22	220 @ 100 MHz	2,5,10,20	45 @ 250 MHz	850	0.7	400
AISC-0805-R27	270 @ 100 MHz	2,5,10,20	40 @ 250 MHz	680	1	350
AISC-0805-R33	330 @ 100 MHz	2,5,10,20	40 @ 250 MHz	660	1.4	310
AISC-0805-R39	390 @ 100 MHz	2,5,10,20	35 @ 250 MHz	560	1.5	290
AISC-0805-R47	470 @ 50 MHz	5,10,20	33 @ 100 MHz	430	1.72	250
AISC-0805-R56	560 @ 25 MHz	5,10,20	23 @ 50 MHz	350	1.9	230
AISC-0805-R68	680 @ 25 MHz	5,10,20	23 @ 50 MHz	300	2.05	190
AISC-0805-R75	750 @ 25 MHz	5,10,20	23 @ 50 MHz	280	2.1	180
AISC-0805-R82	820 @ 25 MHz	5,10,20	23 @ 50 MHz	250	2.3	180
AISC-0805-R91	910 @ 25 MHz	5,10,20	22 @ 50 MHz	230	2.4	160
AISC-0805-1R0	1000 @ 25 MHz	5,10,20	20 @ 50 MHz	200	2.5	150
AISC-0805F-1R0	1000 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	63	1.20	245
AISC-0805F-1R5	1500 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	60	1.45	225
AISC-0805F-2R2	2200 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	58	1.80	200
AISC-0805F-3R3	3300 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	50	2.30	175
AISC-0805F-4R7	4700 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	43	2.80	140
AISC-0805F-6R8	6800 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	36	3.40	115
AISC-0805F-100	10000 @ 2.5 MHz	5,10,20	10 @ 2.5 MHz	30	4.70	98
AISC-0805F-150	15000 @ 2.5 MHz	5,10,20	10 @ 2.5 MHz	23	6.50	80
AISC-0805F-220	22000 @ 2.5 MHz	5,10,20	10 @ 2.5 MHz	20	8.00	68
AISC-0805F-330	33000 @ 2.5 MHz	5,10,20	10 @ 2.5 MHz	17	10.70	60
AISC-0805F-470	47000 @ 2.5 MHz	5,10,20	10 @ 2.5 MHz	14	13.80	55
AISC-0805F-680	68000 @ 2.5 MHz	5,10,20	8 @ 2.5 MHz	11	17.50	49

ABRACON IS
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2.3 x 1.7 x 1.6mm

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

AISC - 0805(F) - - -

Material Code	
Blank	Ceramic
F	Ferrite

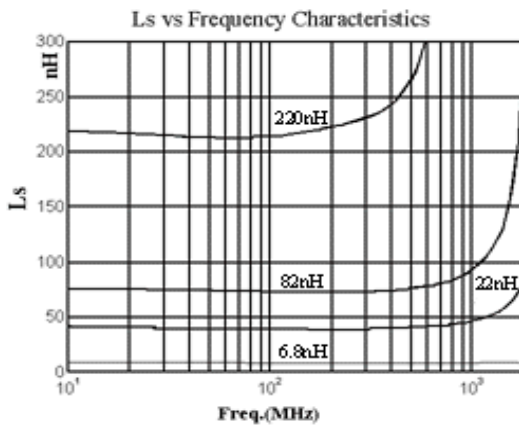
Inductance Code
Please refer to the Table above.

Packaging	
T	Tape & Reel

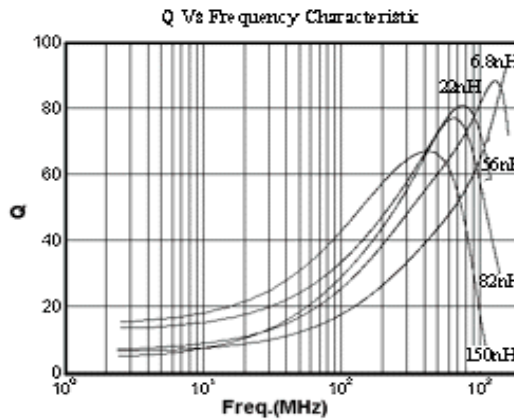
Tolerance Code	
G	±2%
J	±5%
K	±10%
M	±20%

ELECTRICAL PROPERTIES:

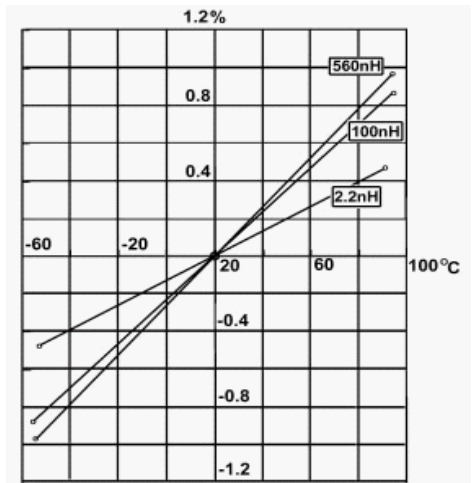
Electrical Properties for AISC-0805:



L vs Frequency

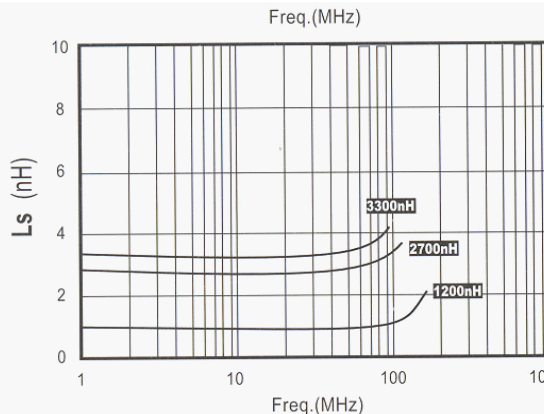


Q vs Frequency

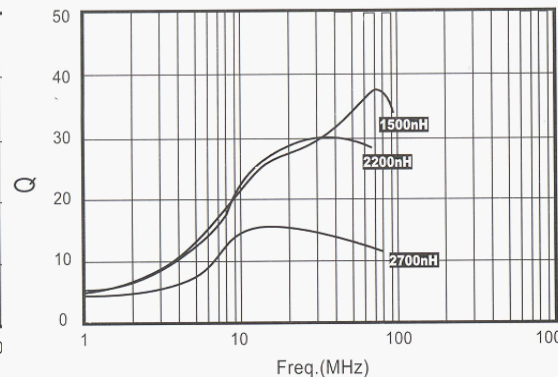


Temperature Characteristic

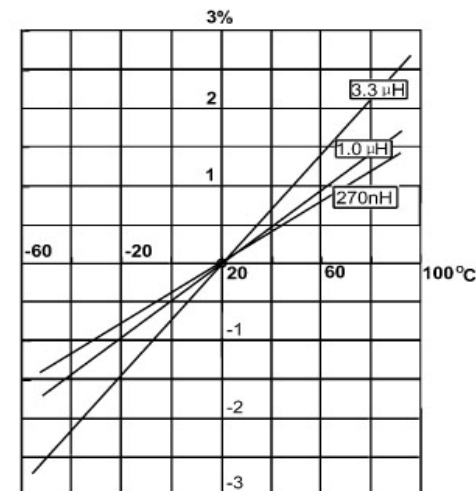
Electrical Properties for AISC-0805F



L vs Frequency



Q vs Frequency



Temperature Characteristic

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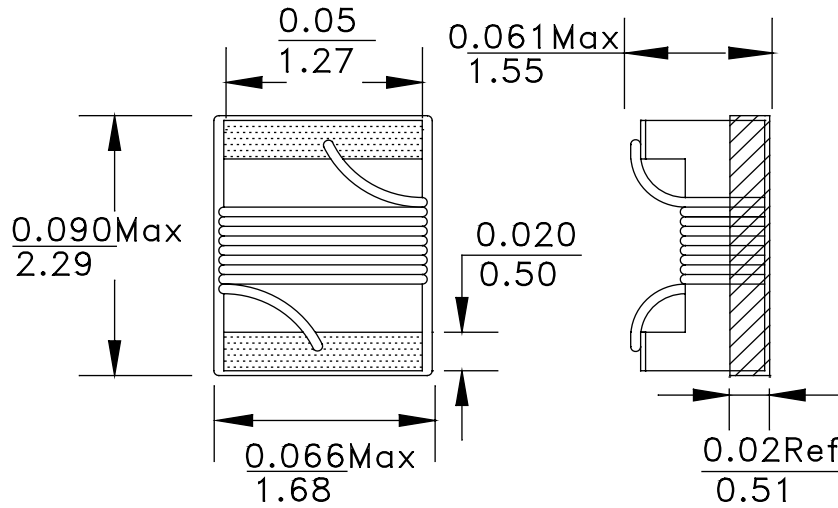


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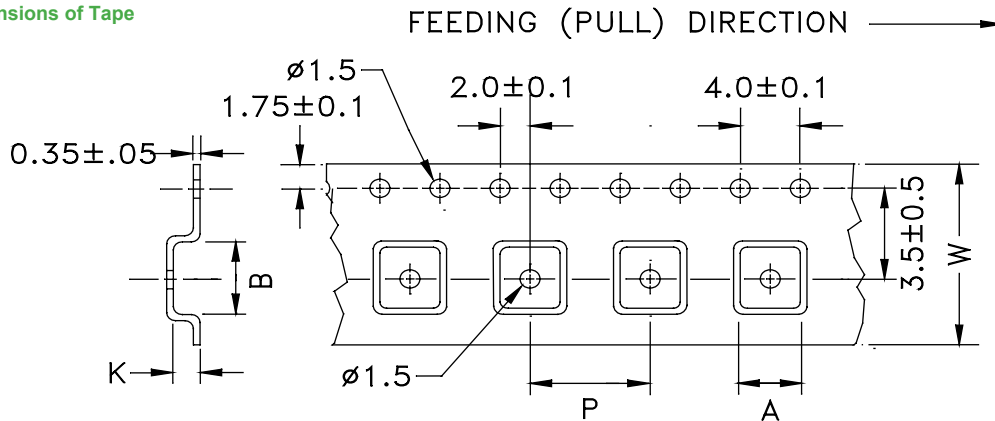
OUTLINE DRAWING:



Dimensions: Inches (mm)

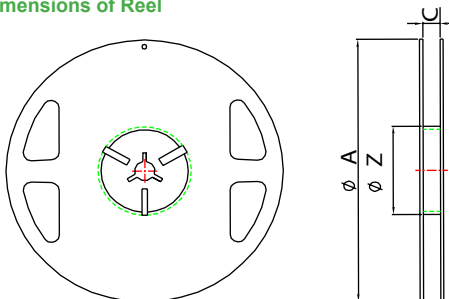
TAPE & REEL: Tape and reel 2,000pcs/reel

Dimensions of Tape



ABRACON P/N	A mm	B (mm)	K mm	P mm	W mm	PCS/REEL
AISC-0805(F)	1.8	2.5	1.45	4	8	2,000

Dimensions of Reel



series	A	C	Z
AISC-0805(F)	178 ± 2.0	8.4 ± 1.5	60 ± 1.0

Dimensions: mm

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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