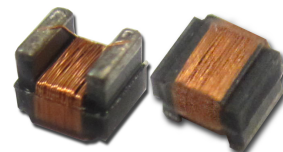


WIRE WOUND INDUCTOR - CERAMIC or FERRITE

AISC-0805(F)



RoHS
Compliant



2.29 x 1.73 x 1.55mm

FEATURES:

- Exceptional high Q and SRF for high frequency applications
- Excellent DCR and current carrying characteristics
- Small size suitable for surface mounting
- Epoxy coating protects wound wire

APPLICATIONS:

- Widely applied in mobile phones such as GSM, CDMA, PDC, etc.
- Bluetooth, W-LAN, Broadband Network
- High Frequency Communication Circuits
- Video cameras, liquid crystal television, and other electronic devices

STANDARD SPECIFICATIONS:

Part Number AISC-0805- Inductance Code	L(nH) @Test Freq.	Tolerance (±%)	Q, Min @Test Freq.	SRF Min (MHz)	R _{DC} Max (Ω)	I _{DC} Max (mA)
AISC-0805-2N2	2.2 @ 250 MHz	J, K	40 @ 1500 MHz	>6000	0.10	600
AISC-0805-3N3	3.3 @ 250 MHz	J, K	25 @ 1500 MHz	>6000	0.20	600
AISC-0805-6N8	6.8 @ 250 MHz	J, K	40 @ 1000 MHz	5000	0.11	600
AISC-0805-8N2	8.2 @ 250 MHz	J, K	40 @ 1000 MHz	4600	0.19	600
AISC-0805-12N	12 @ 250 MHz	G, J, K	40 @ 500 MHz	4000	0.15	600
AISC-0805-15N	15 @ 250 MHz	G, J, K	40 @ 500 MHz	2900	0.17	600
AISC-0805-18N	18 @ 250 MHz	G, J, K	50 @ 500 MHz	3300	0.20	600
AISC-0805-22N	22 @ 250 MHz	G, J, K	55 @ 500 MHz	2000	0.22	500
AISC-0805-27N	27 @ 250 MHz	G, J, K	55 @ 500 MHz	2500	0.25	500
AISC-0805-33N	33 @ 250 MHz	G, J, K	60 @ 500MHz	2000	0.27	500
AISC-0805-39N	39 @ 250 MHz	G, J, K	60 @ 500MHz	2000	0.29	500
AISC-0805-47N	47 @ 200 MHz	G, J, K	50 @ 500MHz	1600	0.31	500
AISC-0805-56N	56 @ 200 MHz	G, J, K	55 @ 500MHz	1550	0.32	500
AISC-0805-68N	68 @ 200 MHz	G, J, K	55 @ 500MHz	1450	0.38	500
AISC-0805-82N	82 @ 150 MHz	G, J, K	50 @ 500MHz	1300	0.42	400
AISC-0805-R10	100 @ 150 MHz	G, J, K	50 @ 500MHz	1200	0.46	400
AISC-0805-R12	120 @ 150 MHz	G, J, K	50 @ 250 MHz	1100	0.51	400
AISC-0805-R15	150 @ 100 MHz	G, J, K	50 @ 250 MHz	920	0.56	400
AISC-0805-R18	180 @ 100 MHz	G, J, K	50 @ 250 MHz	870	0.64	400
AISC-0805-R22	220 @ 100 MHz	G, J, K	45 @ 250 MHz	850	1.10	400
AISC-0805-R27	270 @ 100 MHz	G, J, K	38 @ 250 MHz	650	1.00	350
AISC-0805-R33	330 @ 100 MHz	G, J, K	40 @ 250 MHz	600	1.40	310
AISC-0805-R39	390 @ 100 MHz	G, J, K	35 @ 250 MHz	560	1.50	290
AISC-0805-R47	470 @ 50 MHz	G, J, K	33 @ 100 MHz	375	1.72	250
AISC-0805-R56	560 @ 25 MHz	G, J, K	23 @ 50 MHz	320	1.90	230
AISC-0805-R56	620 @ 25 MHz	G, J, K	23 @ 50 MHz	280	1.95	200
AISC-0805-R68	680 @ 25 MHz	G, J, K	23 @ 50 MHz	270	2.05	190
AISC-0805-R75	750 @ 25 MHz	G, J, K	23 @ 50 MHz	240	2.10	180
AISC-0805-R82	820 @ 25 MHz	G, J, K	23 @ 50 MHz	250	2.30	180
AISC-0805-R91	910 @ 25 MHz	G, J, K	22 @ 50 MHz	230	2.40	160
AISC-0805-1R0	1000 @ 25 MHz	G, J, K	20 @ 50 MHz	200	2.50	150
AISC-0805F-R27	270@25MHz	J, K, M	15@25MHz	550	0.91	350
AISC-0805F-R47	470@100MHz	J, K, M	8@100MHz	500	0.72	300
AISC-0805F-R56	560@25MHz	J, K, M	15@25MHz	360	0.60	145
AISC-0805F-1R0	1000@7.9MHz	J, K, M	15@7.9MHz	63	1.20	245
AISC-0805F-1R5	1500@7.9MHz	J, K, M	15@7.9MHz	60	1.45	225
AISC-0805F-1R8	1800@7.9MHz	J, K, M	15@7.9MHz	60	1.45	200
AISC-0805F-2R2	2200@7.9MHz	J, K, M	10@50MHz	200	2.50	100
AISC-0805F-3R3	3300@7.9MHz	J, K, M	15@7.9MHz	50	2.30	175
AISC-0805F-3R9	3900@7.9MHz	J, K, M	10@7.9MHz	50	2.50	80
AISC-0805F-4R7	4700@7.9MHz	J, K, M	15@7.9MHz	43	2.80	140
AISC-0805F-6R8	6800@7.9MHz	J, K, M	15@7.9MHz	36	3.40	115
AISC-0805F-8R2	8200@7.9MHz	J, K, M	10@2.5MHz	35	4.50	100
AISC-0805F-100	10000@2.5MHz	J, K, M	10@2.5MHz	30	4.70	98
AISC-0805F-150	15000@2.5MHz	J, K, M	10@2.5MHz	23	6.50	80
AISC-0805F-220	22000@2.5MHz	J, K, M	10@2.5MHz	20	8.00	68
AISC-0805F-330	33000@2.5MHz	J, K, M	10@2.5MHz	17	10.7	60
AISC-0805F-470	47000@2.5MHz	J, K, M	10@2.5MHz	14	13.8	55
AISC-0805F-680	68000@2.5MHz	J, K, M	8@2.5MHz	11	17.5	40

PARAMETERS

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

Operating temperature:
-40°C to +125°C

Storage temperature:
-10°C to +40°C
70% RH max.

ABRACON IS
ISO9001:2008
CERTIFIED



ABRACON
CORPORATION

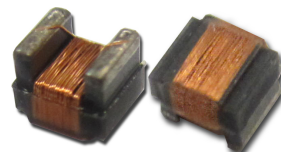
Visit www.abracon.com for Terms & Conditions of Sale **Revised: 07.19.12**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

WIRE WOUND INDUCTOR - CERAMIC or FERRITE

AISC-0805(F)



RoHS
Compliant



2.29 x 1.73 x 1.55mm

TEST CONDITIONS

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- Ambient Temperature: $20 \pm 15^\circ\text{C}$
- Relative Humidity: $65\% \pm 20\%$
- Air Pressure: 86 KPa to 106 KPa

Visual Examination

- Inspection Equipment: 30X magnifier

Electrical Test

DC Resistance (DCR): Test equipment: HIOKI3540 or equivalent.

Inductance (L)

- Test equipment: Agilent4287A+Agilent16197A or equivalent.
- Test signal: -13dBm or 10mA
- Test frequency refers to Item 1.0.

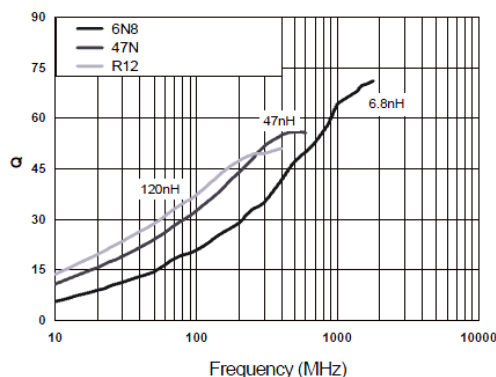
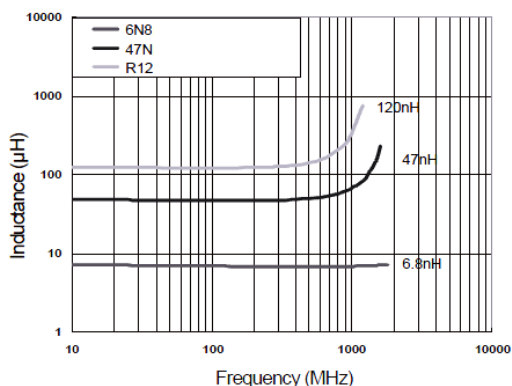
Q Factor (Q)

- Test equipment: Agilent4287A+Agilent16197A or equivalent.
- Test signal: -13dBm or 10mA
- Test frequency refers to Item 1.0.

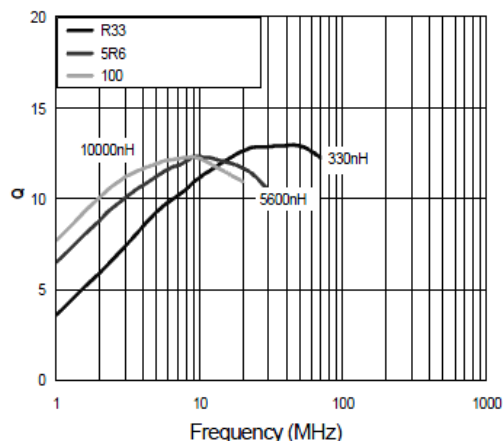
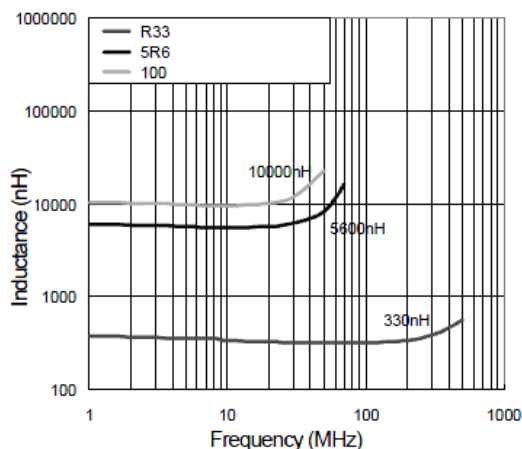
Self-Resonant Frequency (SRF)

ELECTRICAL PROPERTIES:

AISC 0805



AISC 0805F

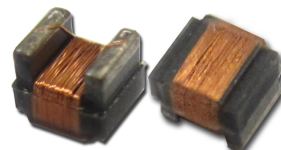


WIRE WOUND INDUCTOR - CERAMIC or FERRITE

AISC-0805(F)



RoHS
Compliant



2.29 x 1.73 x 1.55mm

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

AISC-0805 - -

Core Material
Blank: Ceramic
F: Ferrite

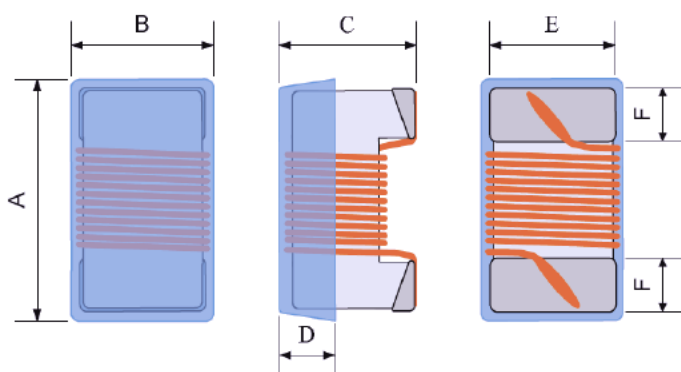
Inductance Code
Please refer to the table above

Inductance Tolerance
G: $\pm 2\%^*$
J: $\pm 5\%$
K: $\pm 10\%$
M: $\pm 20\%$

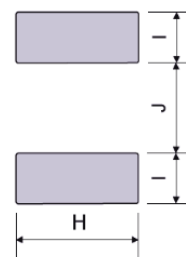
Packaging
T: Tape and Reel (2kpcs / reel)

*Ceramic core only

OUTLINE DRAWING:

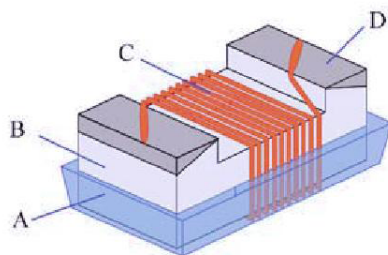


Recommended Land Pattern



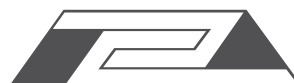
A Max.	B Max.	C Max.	D REF.	E	F	H REF.	I REF.	J REF.
2.29	1.73	1.55	0.51	1.27 \pm 0.2	0.51 \pm 0.2	1.78	1.02	0.76

Materials

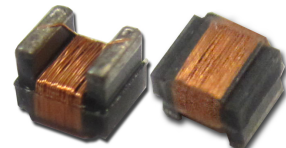


No.	Components	Material
A	Coating	Ultraviolet epoxy resin
B	Core	AISC-0805: Ceramic AISC-0805F: Ferrite
C	Wire	Polyurethane system enameled copper wire
D	Electrodes	AISC-0805: Mo-Mn with Ni and Sn plating AISC-0805F: Ag-Pd with Ni-Sn plating

Dimension: inches / mm



WIRE WOUND INDUCTOR - CERAMIC or FERRITE

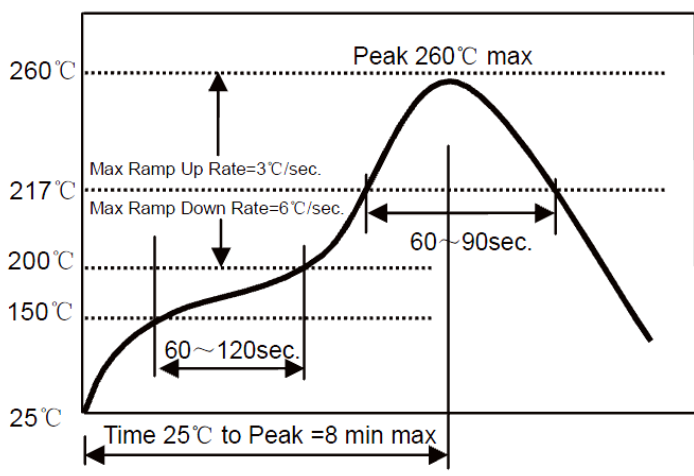


2.29 x 1.73 x 1.55mm

AISC-0805(F)

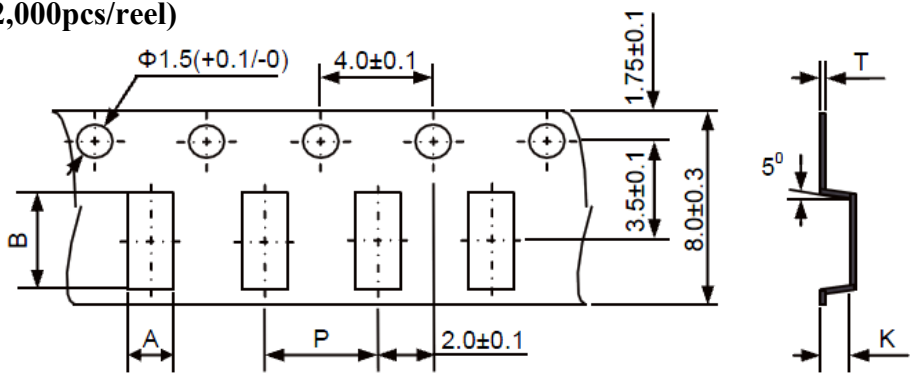
Pb RoHS Compliant

REFLOW PROFILE:

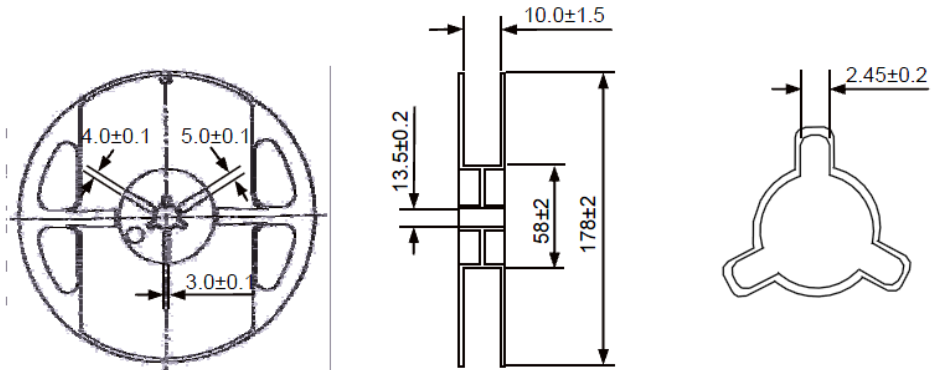


TAPE & REEL:

T= tape and reel (2,000pcs/reel)



A	B	P	K	T
1.88±0.2	2.4±0.2	4.0±0.1	1.35±0.2	0.22±0.1



Dimension: mm

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ABRACON IS
ISO9001:2008
CERTIFIED



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