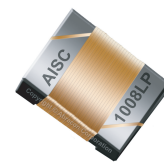


LOW PROFILE WIRE WOUND INDUCTOR (CERAMIC BASE)

AISC-1008LP



RoHS
Compliant



2.92 x 2.79 x 1.40mm

FEATURES:

- Wire wound Ceramic Construction Provides High SRFs and Exceptional Q Values
- Outstanding Endurance from Pull-up Force, Mechanical Shock and Pressure
- Tighter Tolerance of $\pm 2\%$, Low Profile Construction
- Working Temperature Range : $-40\text{ }^{\circ}\text{C} \sim 125\text{ }^{\circ}\text{C}$

APPLICATIONS:

- Widely applied in the VCO, RF module, remote controller and security system
- Cellular Phone (CDMA/GSM/PHS), Wireless PDA,
- Base Station, Repeater, GPS Receiver
- CATV Filter, Tuner, Set Top Box, Cable Modem/ XDSL Tuner
- USB 2.0, IEEE 1394

ELECTRICAL SPECIFICATIONS:

PARAMETERS

ABRACON P/N: AISC-1008LP Series

Operating temperature: $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

Storage temperature: $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$, 70% RH max.

Part Number	Inductance (L) @Test Freq. (nH)	Tolerance ($\pm\%$)	Q, Min @Test Freq.	SRF Min (GHz)	R _{DC} Max (Ω)	I _{DC} Max (mA)	Color Code
AISC-1008LP-3N3	3.3 @ 50 MHz	5,10	42 @ 1500 MHz	6	0.03	1000	White
AISC-1008LP-4N2	4.2 @ 50 MHz	5,10	42 @ 1500 MHz	6	0.15	1000	Black
AISC-1008LP-6N8	6.8 @ 50 MHz	5,10	50 @ 1500 MHz	5.4	0.17	1000	Brown
AISC-1008LP-8N2	8.2 @ 50 MHz	5,10	50 @ 1500 MHz	5	0.22	1000	Red
AISC-1008LP-15N	15 @ 50 MHz	5,10	57 @ 500 MHz	3	0.22	1000	Orange
AISC-1008LP-18N	18 @ 50 MHz	5,10	50 @ 350 MHz	2.4	0.12	1000	Gray
AISC-1008LP-20N	20 @ 50 MHz	5,10	72 @ 500 MHz	2.4	0.33	1000	Yellow
AISC-1008LP-27N	27 @ 50 MHz	5,10	50 @ 350 MHz	1.6	0.13	850	Green
AISC-1008LP-30N	30 @ 50 MHz	5,10	69 @ 500 MHz	2.4	0.38	600	Blue
AISC-1008LP-40N	40 @ 50 MHz	5,10	67 @ 500MHz	2	0.43	600	Violet
AISC-1008LP-50N	50 @ 50 MHz	2,5,10	72 @ 500MHz	1.9	0.48	600	Gray
AISC-1008LP-60N	60 @ 50 MHz	2,5,10	75 @ 500MHz	1.8	0.52	600	White
AISC-1008LP-70N	70 @ 50 MHz	2,5,10	68 @ 500MHz	1.7	0.55	510	Black
AISC-1008LP-80N	80 @ 50 MHz	2,5,10	75 @ 500MHz	1.4	0.56	510	Brown
AISC-1008LP-R18	180 @ 50 MHz	2,5,10	50 @ 350MHz	0.9	0.4	450	Blue
AISC-1008LP-R56	560 @ 25 MHz	2,5,10	40 @ 100MHz	0.415	1.33	400	Red
AISC-1008LP-1R0	1000 @ 25 MHz	5,10	35 @ 50MHz	0.35	3.7	300	Blue

Test Equipment

1. For SMT inductor, the inductance value(L) is measured by using HP4291B impedance analyzer
2. RDC measured by using Micro-ohm meter (GOM-801G)
3. For SMT inductor , the quality factor (Q) is measured by using HP4291B impedance analyzer
4. For SMT inductor ,SRF is measured by using HP8753 network analyzer

OPTIONS AND PART IDENTIFICATION

AISC - 1008LP - □□□ - □ - □

Inductance Code
Please refer to the Table

Tolerance Code	
G	$\pm 2\%$
J	$\pm 5\%$
K	$\pm 10\%$

Packaging Code	
T	Tape & Reel



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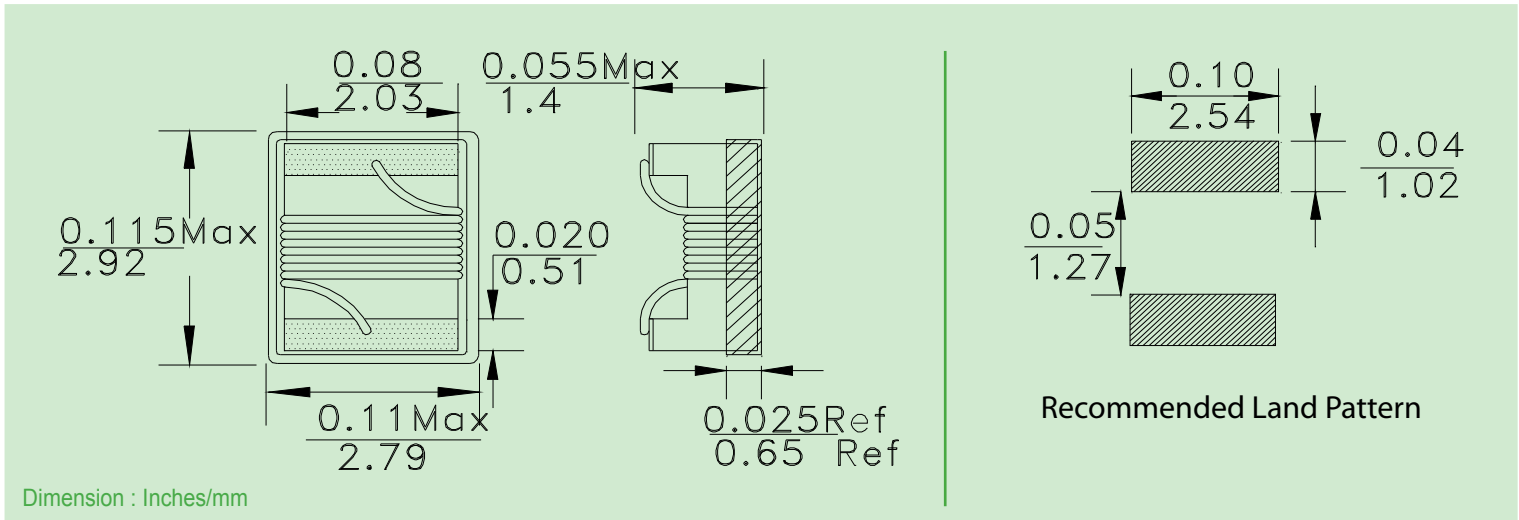


2.92 x 2.79 x 1.40mm

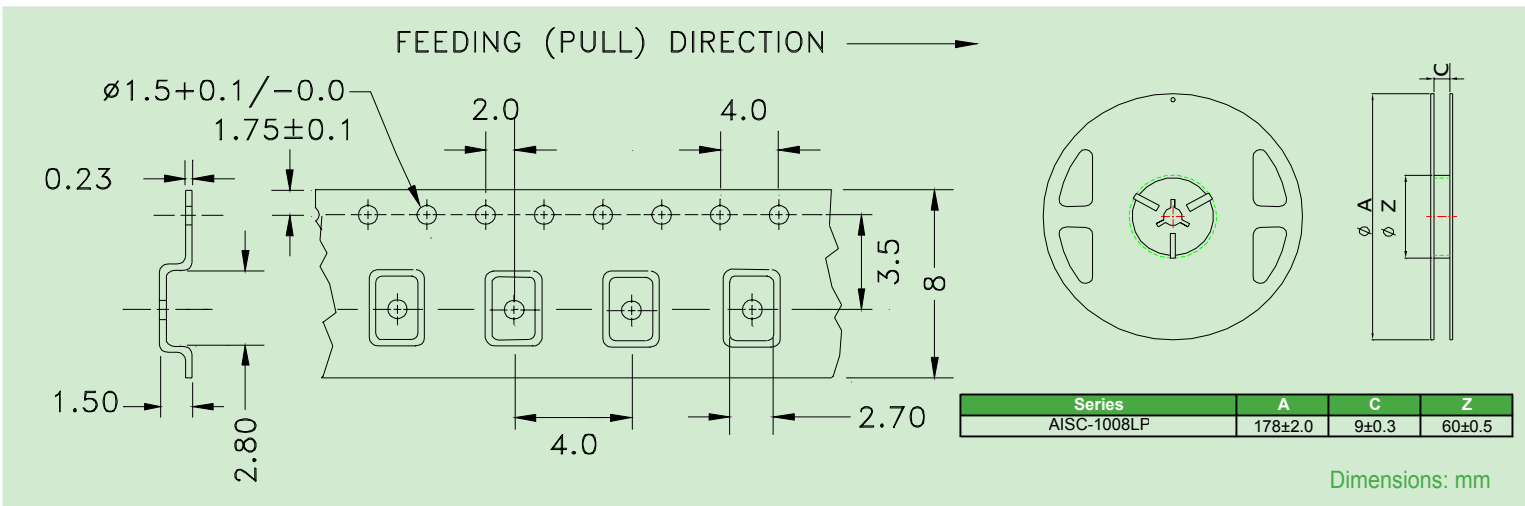
AISC-1008LP



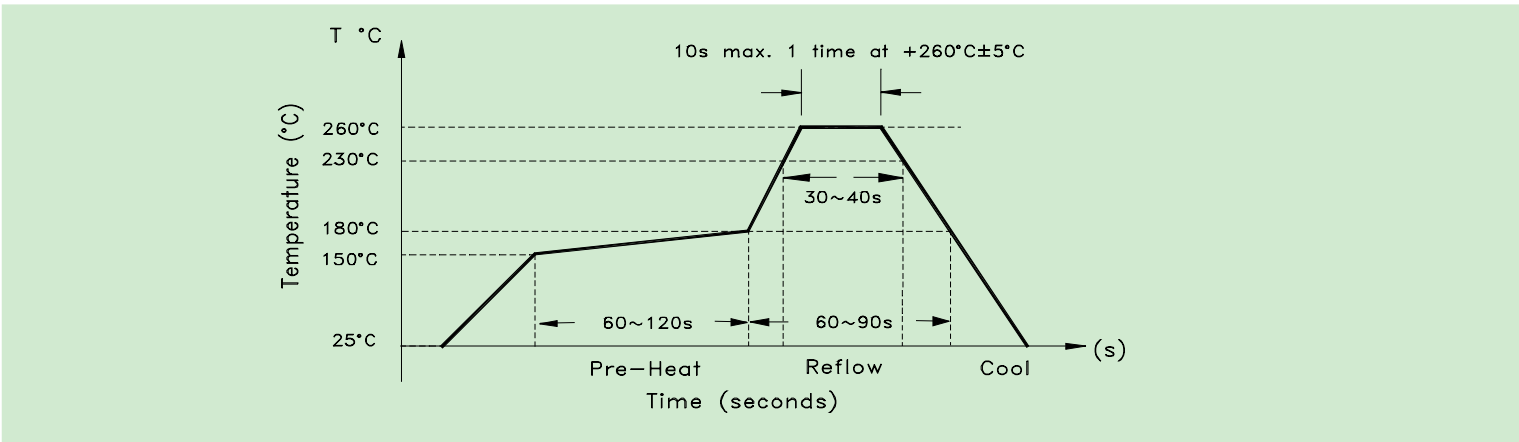
OUTLINE DRAWING:



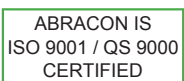
TAPE & REEL: Tape and reel 2,000pcs/reel



REFLOW PROFILE:



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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