



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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HIGH Q CERAMIC WIRE WOUND INDUCTORS

AISC-1008HQ



RoHS/RoHS II Compliant



2.60 x 2.10 x 1.70mm

FEATURES:

- Higher Q and lower DCR than other 1008 inductors
- Very high SRF – as high as 8.1 GHz
- Excellent current handling capability – up to 1600mA
- Wide range of Inductance values available for flexible needs
- Tight tolerance of 2% is available.

APPLICATIONS:

- Widely used in communications applications such as cell phones, cable modems, ADSL, repeaters.
- Bluetooth, W-LAN, GPS, Broadband Network
- Video cameras, liquid crystal television, and other electronic devices
- Suitable for RF circuit

ELECTRICAL SPECIFICATIONS:

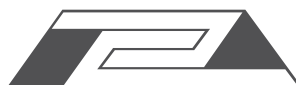
PARAMETERS

ABRACON P/N:	AISC-1008 HQSeries
Operating temperature:	-40°C to + 125°C
Storage temperature:	-10°C to +40°C, 20% to 70% RH in Tape & Reel

Part Number AISC-1008HQ- Inductance Code	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self- resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	I _r	S.R.F
AISC-1008HQ-3N0	3.0	J, K	70	50/1500	0.04	1600	8100
AISC-1008HQ-7N8	7.8	J, K	75	50/1500	0.05	1600	3800
AISC-1008HQ-10N	10	J, K	60	50/500	0.08	1300	3600
AISC-1008HQ-12N	12	G, J, K	70	50/500	0.06	1500	2800
AISC-1008HQ-18N	18	G, J, K	62	50/350	0.08	1400	2700
AISC-1008HQ-22N	22	G, J, K	62	50/350	0.07	1400	2050
AISC-1008HQ-33N	33	G, J, K	75	50/350	0.09	1300	1700
AISC-1008HQ-39N	39	G, J, K	75	50/350	0.09	1300	1300
AISC-1008HQ-47N	47	G, J, K	75	50/350	0.12	1200	1450
AISC-1008HQ-56N	56	G, J, K	75	50/350	0.12	1200	1230
AISC-1008HQ-68N	68	G, J, K	80	50/350	0.13	1000	1150
AISC-1008HQ-82N	82	G, J, K	80	50/350	0.16	1000	1060
AISC-1008HQ-R10	100	G, J, K	62	50/350	0.16	1000	820

Test Conditions

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. SRF is measured in ENA E5071B network analyzer
3. RDC is measured in HP-4338B milliohmeter.
4. Definition of Rated Current (I_r): I_r is direct electric current as chip surface temperature rise just 15°C against chip initial surface temperature (T_a)



HIGH CURRENT CERAMIC WIRE WOUND INDUCTORS

AISC-1008HQ



RoHS/RoHS II Compliant



2.60 x 2.10 x 1.70mm

PART NUMBER IDENTIFICATION

AISC-1008HQ - -

Inductance Code

Please refer to the Table

Tolerance Code

G: ±2%

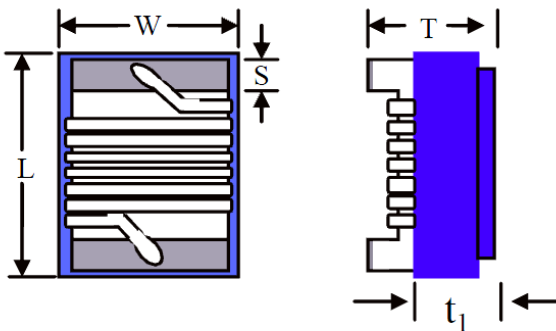
J: ±5%

K: ±10%

Packaging

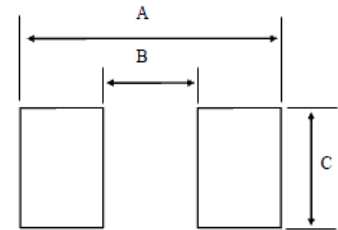
T: 2kpcs/reel

OUTLINE DIMENSIONS



L	W	T	S	t ₁
2.60 ± 0.20	2.10 ± 0.20	1.70 ± 0.20	0.50 ± 0.10	0.70 ref

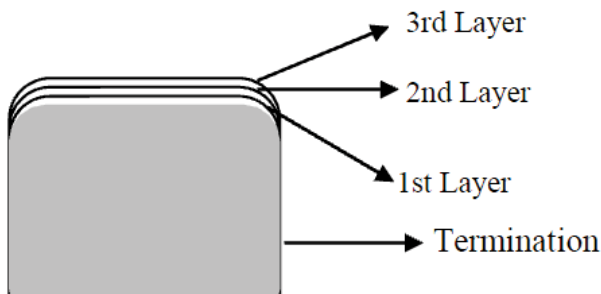
Recommended Land Pattern



A	B	C
3.00	1.20	2.20

Dimension: mm

ELECTRODE MATERIALS



Components	Material
1 st Layer	Mo/Mn or Ag
2 nd Layer	Nickel
3 rd Layer	Gold

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AISC-1008HQ

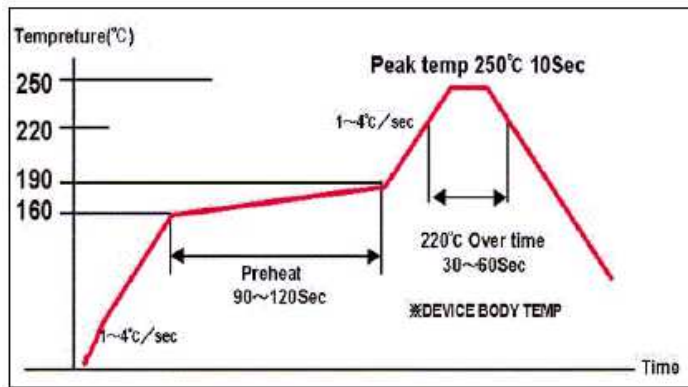


RoHS/RoHS II Compliant



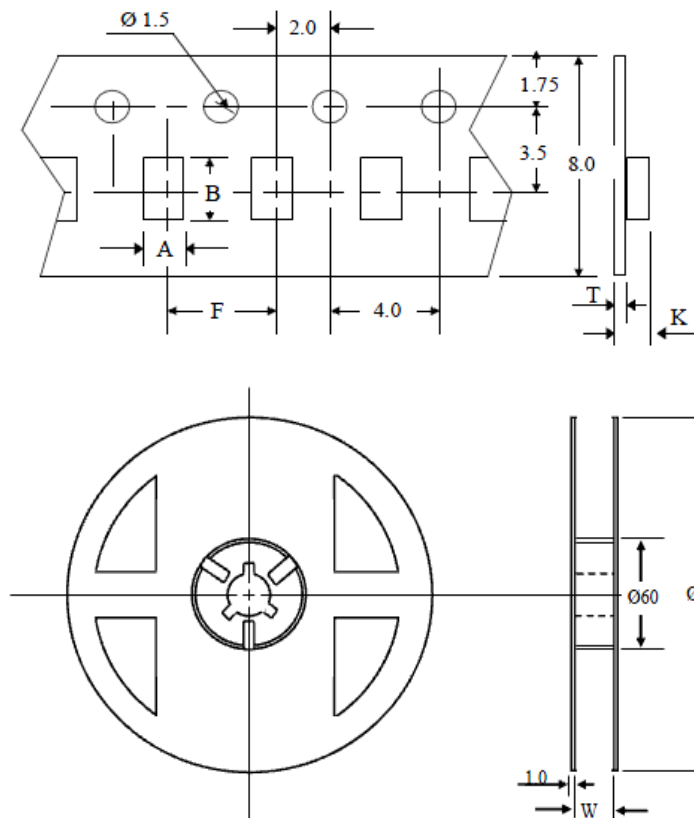
2.60 x 2.10 x 1.70mm

REFLOW PROFILE



TAPE & REEL:

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



A	B	F	K	T	W
2.23	2.73	4.00	1.80	0.20	8.00

Dimension: mm

Storage period

Use the product within 12 months after delivered. Solderability should be checked if this period is exceeded.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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Revised: 04.06.13