



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-0805HQ



RoHS/RoHS II Compliant



2.29 x 1.73 x 1.52mm

FEATURES:

- Higher Q and lower DCR than other 0805 inductors
- Very high SRF – as high as 6 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:

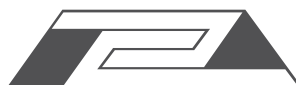
PARAMETERS

ABRACON P/N:	AISC-0805HQ
Operating temperature:	-40°C to + 125°C in Tape & Reel
Storage temperature in Tape and Reel:	+22°C to +28°C, 80% RH max.

Part Number AISC-0805HQ- Inductance Code	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self- resonant Frequency	Color Code
Units	nH	-	-	MHz	Ω	mA	GHz	
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F	
AISC-0805HQ-2N5	2.5	J, K	80	250/1500	0.020	1600	6.00	None
AISC-0805HQ-5N6	5.6	J, K	98	250/1500	0.035	1600	6.00	Brown
AISC-0805HQ-6N2	6.2	J, K	88	250/1000	0.035	1600	4.75	Red
AISC-0805HQ-6N8	6.8	J, K	80	250/1000	0.035	1600	4.40	White
AISC-0805HQ-8N2	8.2	J, K	75	250/1000	0.075	1000	3.00	Gray
AISC-0805HQ-10N	10	J, K	80	250/1000	0.060	1600	3.00	None
AISC-0805HQ-12N	12	J, K	80	250/1000	0.045	1600	3.00	Orange
AISC-0805HQ-15N	15	G, J, K	80	250/1000	0.100	1200	2.80	None
AISC-0805HQ-16N	16	G, J, K	72	250/500	0.060	1500	2.95	Yellow
AISC-0805HQ-18N	18	G, J, K	75	250/500	0.060	1400	2.55	Green
AISC-0805HQ-20N	20	G, J, K	70	250/500	0.055	1400	2.05	Blue
AISC-0805HQ-22N	22	G, J, K	80	250/500	0.100	1200	2.00	None
AISC-0805HQ-27N	27	G, J, K	75	250/500	0.070	1300	2.00	Violet
AISC-0805HQ-30N	30	G, J, K	65	250/500	0.095	1200	1.95	Gray
AISC-0805HQ-39N	39	G, J, K	65	250/500	0.110	1100	1.60	White
AISC-0805HQ-48N	48	G, J, K	65	200/500	0.095	1200	1.40	None
AISC-0805HQ-51N	51	G, J, K	65	200/500	0.120	1000	1.40	Brown

Test Conditions

1. Inductance, Q: HP4286
2. SRF: HP4287
3. RDC: Micro-Ohm meter (Gom-801G)
4. Definition of Rated Current (Ir): The current applied to inductor such that the inductance change should be less than 10% to initial value.



HIGH Q CERAMIC WIRE WOUND INDUCTORS

AISC-0805HQ



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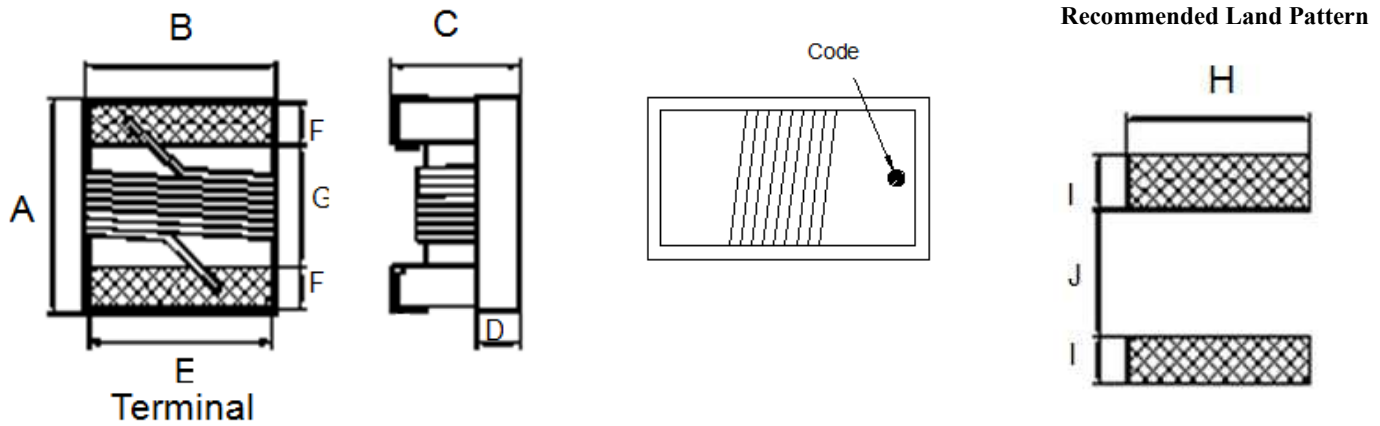
2.29 x 1.73 x 1.52mm

PART IDENTIFICATION:

AISC-0805HQ - -

Inductance Code	Tolerance Code	Packaging
Please refer to the Table	G: ±2%	T: 2kpcs/reel
	J: ±5%	
	K: ±10%	

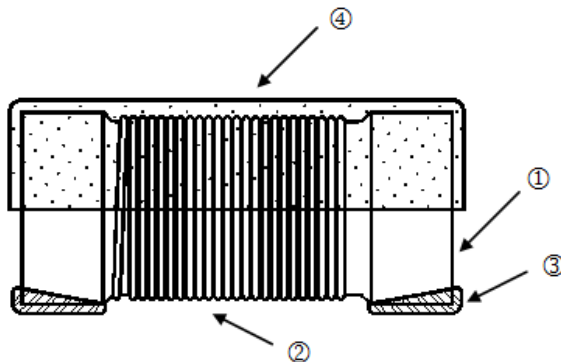
OUTLINE DIMENSIONS:



A max.	B max.	C max.	D Ref.	E	F	G	H	I	J
2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76

Dimension: mm

MATERIALS



Components	Material
1	Ceramic Core
2	Magnet wire
3	Electrode (Ag/Pd+Ni+Sn)
4	UV Glue

HIGH Q CERAMIC WIRE WOUND INDUCTORS

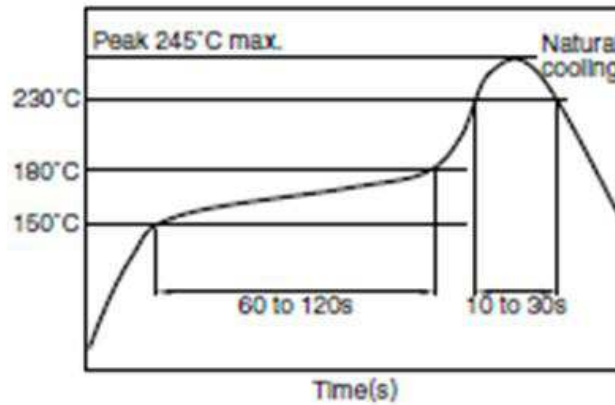
AISC-0805HQ

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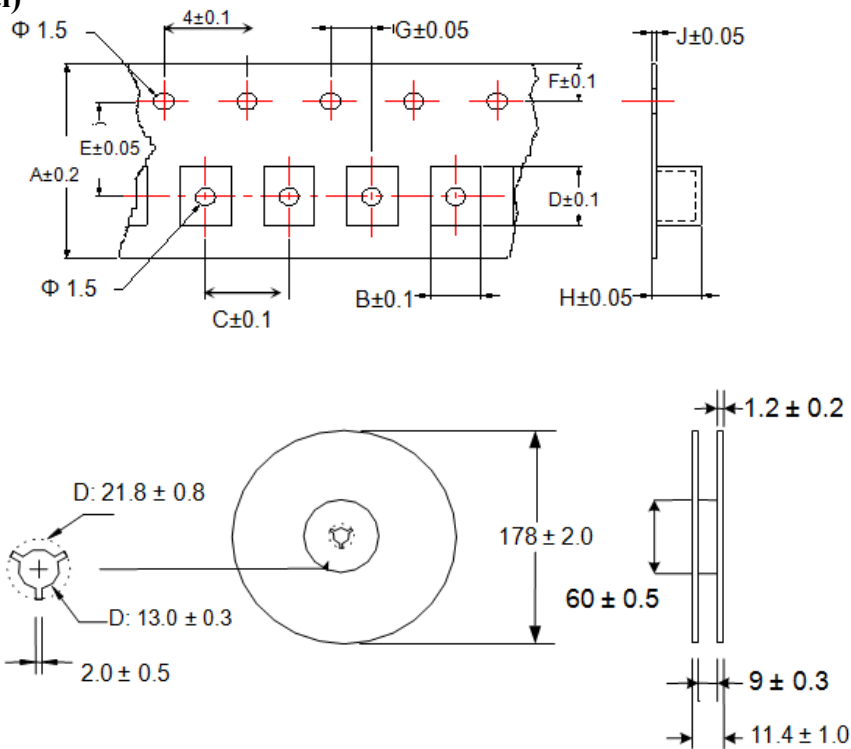
2.29 x 1.73 x 1.52mm

REFLOW PROFILE



TAPE & REEL:

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



A	B	C	D	E	F	G	H	J
8	1.85	4	2.30	3.5	1.75	2	1.45	0.23

Storage period

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

Dimension: mm

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