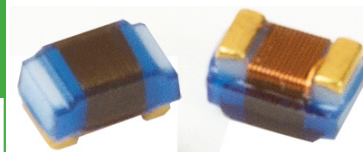


# CERAMIC WIRE-WOUND INDUCTORS

AISC-0603A

MSL level: 2 (This product is packed with dry packaging)

RoHS  
Compliant



1.65 x 1.15 x 0.90mm

## 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

## ELECTRICAL SPECIFICATIONS:

Part Number AISC-0603A 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 <sub>r</sub>	S.R.F
1N6	1.6	B,S,K	18	250/250	0.030	700	12500
1N8	1.8	B,S,K	16	250/250	0.045	700	>8500
2N2	2.2	B,S,K	13	250/250	0.110	700	>8500
3N3	3.3	J,K	35	250/250	0.045	700	6000
3N6	3.6	J,K	22	250/250	0.070	700	6000
3N9	3.9	J,K	22	250/250	0.070	700	6900
4N3	4.3	J,K	22	250/250	0.070	700	5900
4N7	4.7	J,K	20	250/250	0.080	700	5800
5N1	5.1	J,K	18	250/250	0.150	700	5700
6N2	6.2	J,K	25	250/250	0.100	700	5800
6N8	6.8	G,J,K	27	250/250	0.100	700	5800
7N5	7.5	G,J,K	28	250/250	0.100	700	4800
8N2	8.2	G,J,K	28	250/250	0.100	700	4700
8N7	8.7	G,J,K	28	250/250	0.100	700	4600
9N5	9.5	G,J,K	28	250/250	0.100	700	5400
10N	10	G,J,K	31	250/250	0.100	700	4800
11N	11	G,J,K	30	250/250	0.100	700	4000
12N	12	G,J,K	32	250/250	0.100	700	4000
13N	13	G,J,K	38	250/250	0.100	700	3600
15N	15	G,J,K	35	250/250	0.120	700	4000
16N	16	G,J,K	35	250/250	0.120	700	3300
18N	18	G,J,K	35	250/250	0.120	700	3100
20N	20	G,J,K	35	250/250	0.120	700	3100
22N	22	G,J,K	35	250/250	0.150	700	3000
23N	23	G,J,K	38	250/250	0.140	700	2850
24N	24	G,J,K	35	250/250	0.140	700	2650
27N	27	G,J,K	35	250/250	0.200	600	2800
30N	30	G,J,K	37	250/250	0.144	600	2250
33N	33	G,J,K	36	250/250	0.200	600	2300
36N	36	G,J,K	36	250/250	0.200	600	2080
39N	39	G,J,K	36	250/250	0.210	600	2200
43N	43	G,J,K	38	250/250	0.220	600	2000
47N	47	G,J,K	35	200/200	0.230	600	2000
51N	51	G,J,K	32	200/200	0.240	600	1950
56N	56	G,J,K	32	200/200	0.250	600	1900
68N	68	G,J,K	32	200/200	0.350	600	1700
72N	72	G,J,K	34	150/150	0.490	400	1700
82N	82	G,J,K	30	150/150	0.580	400	1700
R10	100	G,J,K	34	150/150	0.580	400	1400
R11	110	G,J,K	33	150/150	0.610	300	1350
R12	120	G,J,K	30	150/150	0.650	300	1300
R15	150	G,J,K	30	100/150	0.850	280	990
R18	180	G,J,K	25	100/100	1.000	250	990
R22	220	G,J,K	25	100/100	1.800	250	900
R27	270	G,J,K	25	100/100	2.100	200	822
R33	330	J,K	25	100/100	2.300	150	500
R39	390	J,K	25	100/100	2.900	130	350

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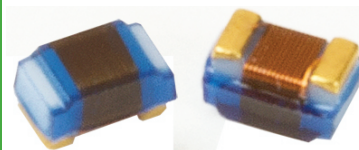
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CORPORATION

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# CERAMIC WIRE-WOUND INDUCTORS

AISC-0603A

RoHS  
Compliant



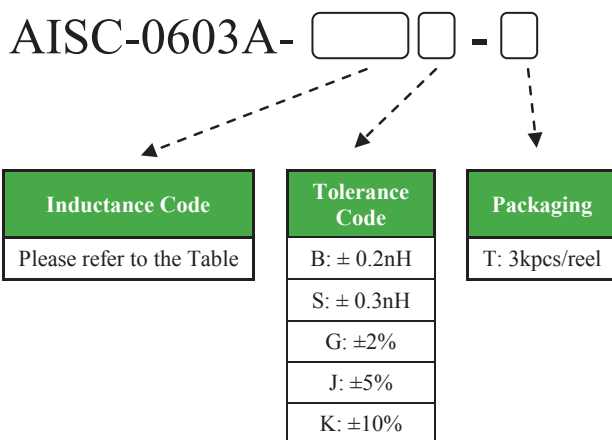
1.65 x 1.15 x 0.90mm

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

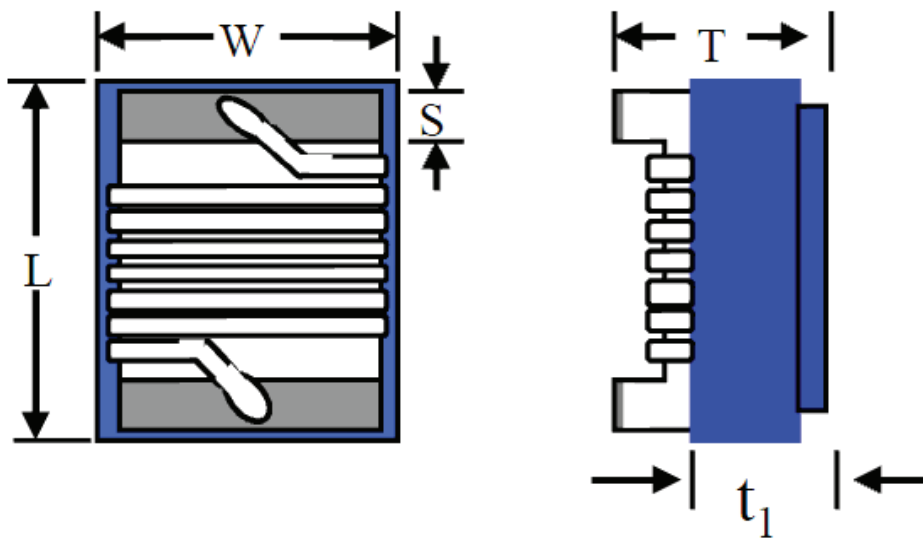
**Operating Temperature: -40°C to +125°C**

**Storage Temperature: -10°C to +40°C, 70% RH max.**

## PART IDENTIFICATION:



## OUTLINE DRAWING:



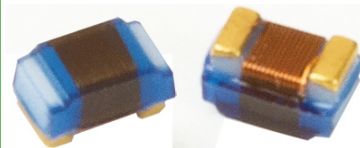
L	W	T	S	t1 ref
1.65 ± 0.20	1.15 ± 0.20	0.90 ± 0.20	0.30 ± 0.10	0.50

Dimension: mm

# CERAMIC WIRE-WOUND INDUCTORS

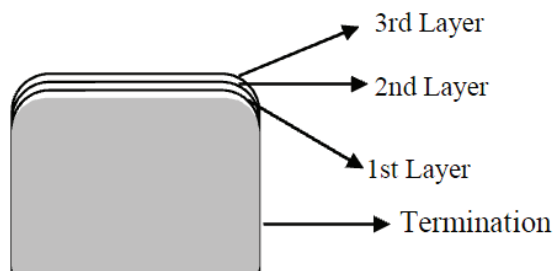
AISC-0603A

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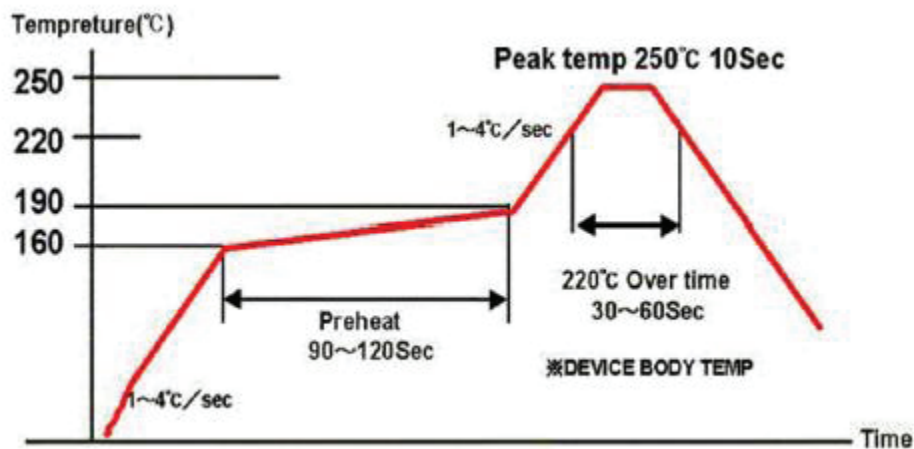
1.65 x 1.15 x 0.90mm

## ELECTRODE MATERIALS



Components	Material
1 <sup>st</sup> Layer	Ag
2 <sup>nd</sup> Layer	Nickel
3 <sup>rd</sup> Layer	Au

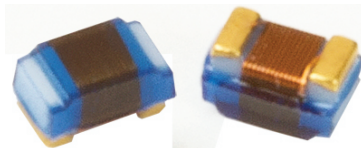
## REFLOW PROFILE:



# CERAMIC WIRE-WOUND INDUCTORS

AISC-0603A

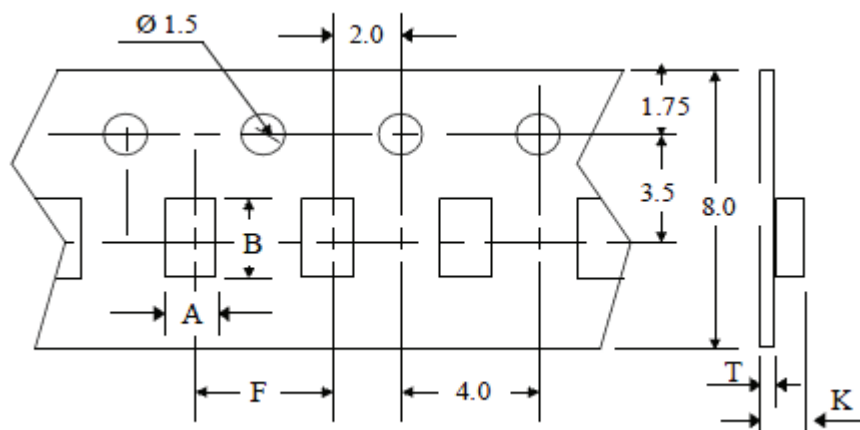
RoHS  
Compliant



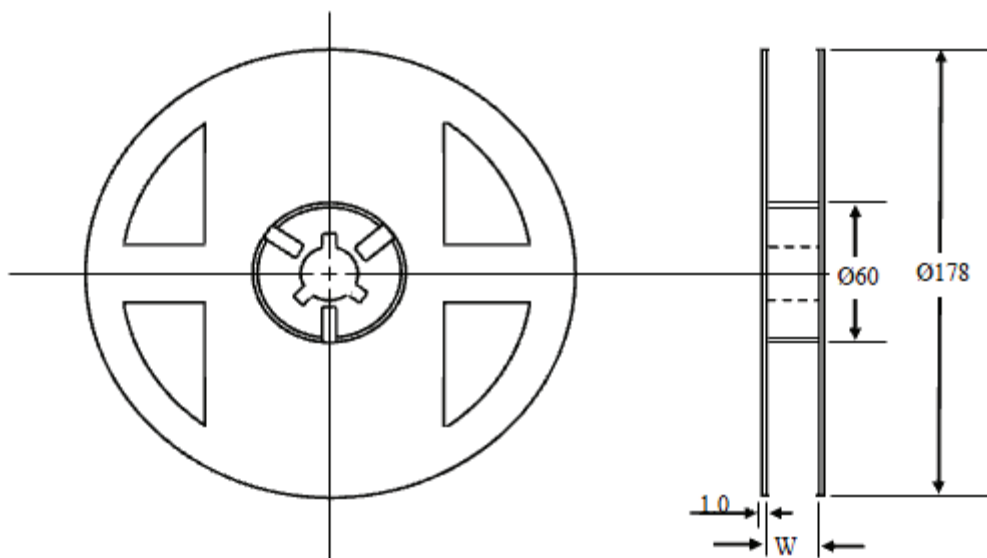
1.65 x 1.15 x 0.90mm

## PACKING:

T= tape and reel (3,000pcs/reel)



A	B	F	K	T	W
1.25	1.80	4.00	1.05	0.20	8.00



Dimension: mm

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