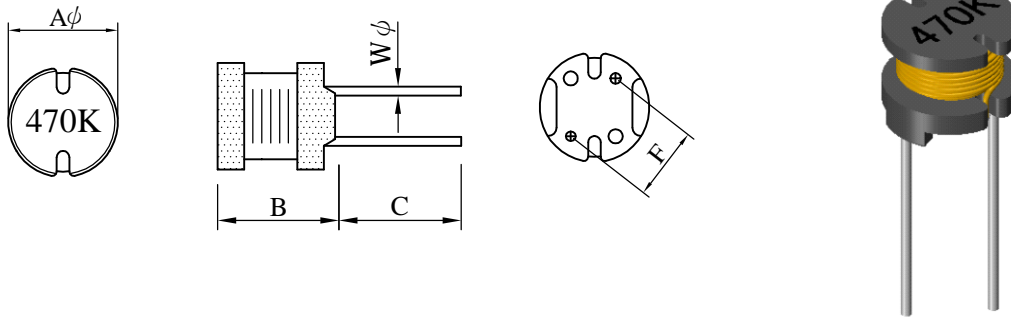


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1008□□□□L□-□□□		
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I . Configuration and dimensions :



Unit : m/m

Aφ	B	C	F	Wφ
10.00 ±0.5	8.00 ±0.5	18.00 ±3.0	6.40 typ.	0.80 ±0.05

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 2.75 g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

III . General specification :

- a . Storage temp. : -40°C ~ +125°C
- b . Operating temp. : -40°C ~ +125°C
(Temp. rise included.)

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SPECIFICATION FOR APPROVAL

REF. :

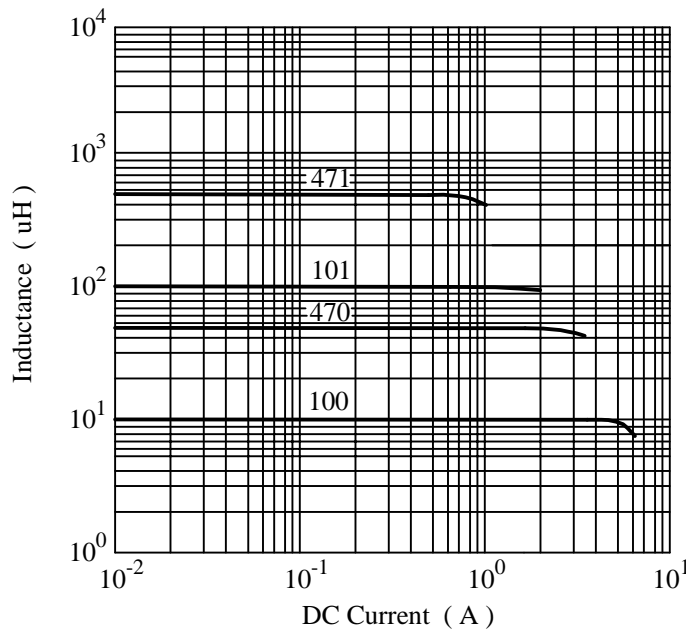
PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1008□□□□L□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Test Freq. L	SRF (MHz) typ.	RDC (Ω)		Irms (A) typ.	Isat (A) typ.
				max.	typ.		
RC1008100ML□-□□□	10 \pm 20%	1V/1kHz	22.00	0.026	0.019	4.50	4.70
RC1008150ML□-□□□	15 \pm 20%	1V/1kHz	16.50	0.035	0.026	3.80	4.00
RC1008220ML□-□□□	22 \pm 20%	1V/1kHz	14.00	0.050	0.034	3.00	3.30
RC1008330ML□-□□□	33 \pm 20%	1V/1kHz	10.00	0.070	0.050	2.50	2.70
RC1008470KL□-□□□	47 \pm 10%	1V/1kHz	9.20	0.098	0.077	2.20	2.40
RC1008680KL□-□□□	68 \pm 10%	1V/1kHz	7.00	0.145	0.112	1.80	2.00
RC1008101KL□-□□□	100 \pm 10%	1V/1kHz	6.00	0.210	0.165	1.40	1.60
RC1008151KL□-□□□	150 \pm 10%	1V/1kHz	4.90	0.300	0.238	1.20	1.40
RC1008221KL□-□□□	220 \pm 10%	1V/1kHz	3.80	0.420	0.335	1.00	1.10
RC1008331KL□-□□□	330 \pm 10%	1V/1kHz	3.30	0.660	0.530	0.80	0.92
RC1008471KL□-□□□	470 \pm 10%	1V/1kHz	2.70	0.860	0.685	0.72	0.80
RC1008681KL□-□□□	680 \pm 10%	1V/1kHz	2.20	1.280	1.020	0.56	0.63
RC1008102KL□-□□□	1000 \pm 10%	1V/1kHz	1.65	1.850	1.510	0.46	0.54

- 1). Electrical specifications at 25°C
- 2). Irms base on temp. rise 30°C typ.
- 3). Isat base on $\Delta L/L0A=10\%$ typ.

@ Inductance VS. DC Superposition Characteristics



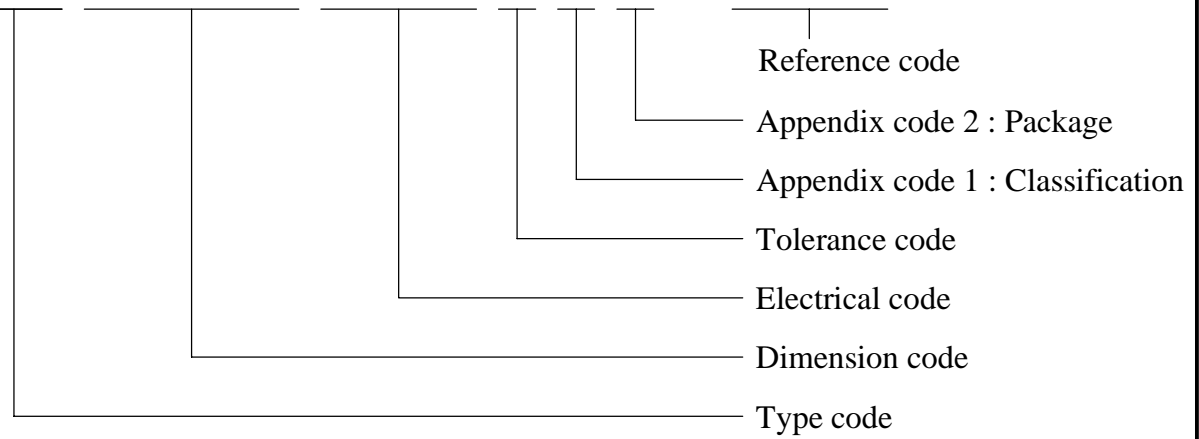
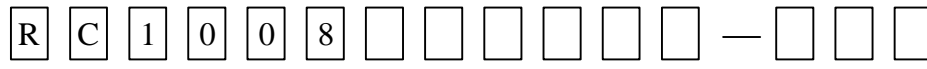
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V . Dwging number expression :



Appendix code 1 : Product Classification

L : Lead Free Standard products comply with RoHS' requirements

Appendix code 2 : Package Information

Code	Inner package	Inner package Q'TY	Remark
A	Tray	200 pcs	

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1008□□□□L□-□□□		
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VI . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.	1.No body change in appearance. 2.No marking blurred. 3.Inductance shall not change more than ±10%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Method : Dip 2.Temperature : 260±5℃ 3.Time : 10 second. 4.Number of times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 second. 2.Rated current	Inductance shall not drop more than 10% typ.
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 30℃ typ.
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Dip pads in flux then dip in solder pot at 240±5℃ for 5 seconds.	More than 95% soldering coverage min on terminations.
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 time (Every side of sample drop 2 time)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.Terminal Strength Test	MIL-STD-202 Method 211	1.Apply pull force to samples of terminals 2.Force of 910g for 60±1 seconds.	After test, inductors shall be no mechanical damage.

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