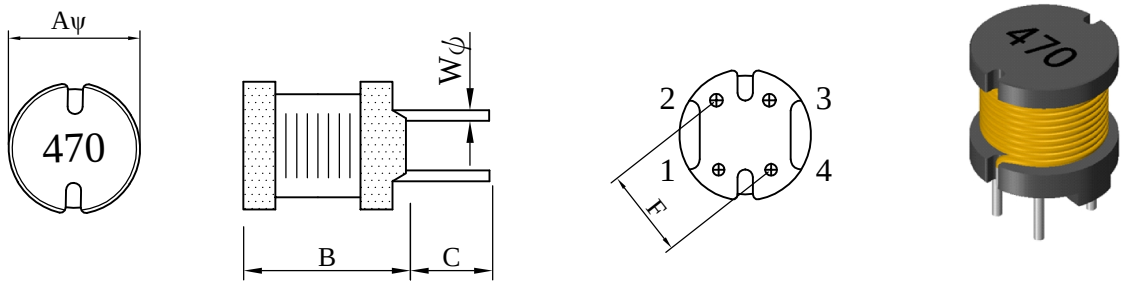
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1010□□□□9□-□□□		
		REV.	20130129-B	PAGE	1

Ⅰ．Configuration and dimensions：



Unit：m/m

Aϕ	B	C	F	Wϕ
10.50±0.50	10.50±0.50	3.50±1.0	6.40 typ.	0.70±0.05

Ⅱ．Schematic Diagram：

100 ~ 330

390 ~ 102

Ⅲ．Description：

a．Ferrite drum core construction.

b．Enamelled copper wire：F class

c．Product weight：2.86 g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available

Ⅳ．General specification：

a．Storage temp.：-40℃ ～ +125℃

b．Operaing temp.：-40℃ ～ +125℃

(Temp. rise included.)

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1010□□□□9□-□□□		
		REV.	20130129-B	PAGE	2

Ⅳ . Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	IDC (A)
			L	Q			
RC1010100M9□-□□□	10 ±20%	20	2.52M	2.52M	14.0	0.022	5.30
RC1010120M9□-□□□	12 ±20%	20	2.52M	2.52M	11.0	0.023	4.90
RC1010150M9□-□□□	15 ±20%	20	2.52M	2.52M	7.7	0.026	4.40
RC1010180M9□-□□□	18 ±20%	20	2.52M	2.52M	7.1	0.033	4.00
RC1010220M9□-□□□	22 ±20%	20	2.52M	2.52M	6.8	0.037	3.60
RC1010270M9□-□□□	27 ±20%	20	2.52M	2.52M	6.1	0.048	3.30
RC1010330K9□-□□□	33 ±10%	20	2.52M	2.52M	6.0	0.055	2.90
RC1010390K9□-□□□	39 ±10%	25	2.52M	2.52M	8.6	0.073	2.70
RC1010470K9□-□□□	47 ±10%	25	2.52M	2.52M	8.1	0.083	2.50
RC1010560K9□-□□□	56 ±10%	25	2.52M	2.52M	7.6	0.092	2.30
RC1010680K9□-□□□	68 ±10%	25	2.52M	2.52M	6.3	0.120	2.10
RC1010820K9□-□□□	82 ±10%	25	2.52M	2.52M	6.0	0.140	1.90
RC1010101K9□-□□□	100 ±10%	25	1K	0.796M	5.7	0.160	1.70
RC1010121K9□-□□□	120 ±10%	25	1K	0.796M	4.8	0.200	1.50
RC1010151K9□-□□□	150 ±10%	25	1K	0.796M	4.2	0.230	1.40
RC1010181K9□-□□□	180 ±10%	25	1K	0.796M	3.9	0.310	1.30
RC1010221K9□-□□□	220 ±10%	25	1K	0.796M	3.8	0.340	1.10
RC1010271K9□-□□□	270 ±10%	20	1K	0.796M	3.4	0.400	1.00
RC1010331K9□-□□□	330 ±10%	20	1K	0.796M	2.8	0.520	0.93
RC1010391K9□-□□□	390 ±10%	20	1K	0.796M	2.7	0.650	0.86
RC1010471K9□-□□□	470 ±10%	20	1K	0.796M	2.5	0.710	0.78
RC1010561K9□-□□□	560 ±10%	20	1K	0.796M	2.2	1.000	0.71
RC1010681K9□-□□□	680 ±10%	20	1K	0.796M	2.1	1.100	0.65
RC1010821K9□-□□□	820 ±10%	20	1K	0.796M	2.0	1.300	0.59
RC1010102K9□-□□□	1000 ±10%	20	1K	0.252M	1.7	1.700	0.53

1). Electrical specifications at 25℃

2). IDC base on temp. rise 40℃ typ. & △L/L0A=10% max.

3). 10~33uH --Pin (1,4) & (2,3)

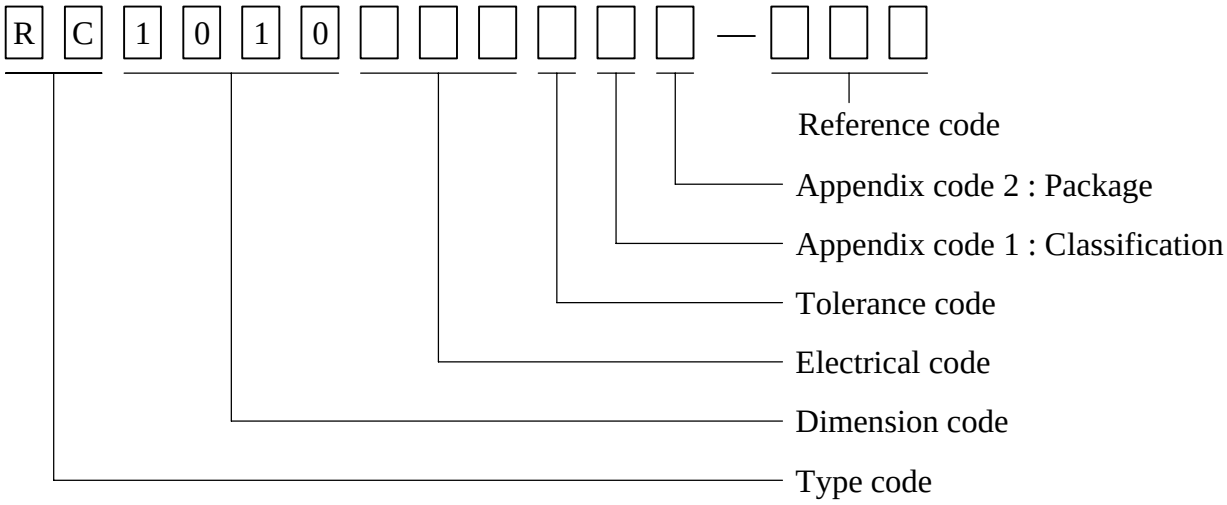
39~1000uH --Pin 2 & 4

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1010□□□□9□-□□□		
		REV.	20130129-B	PAGE	3

Ⅵ．Dwging number expression：



Appendix code 1：Product Classification

Appendix code 2：Package Information

Code	Inner package	Inner package Q'TY	Remark
A	Box	100 pcs	
B	Tray	200 pcs	

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RC1010□□□□9□-□□□		
		REV.	20130129-B	PAGE	4

Ⅶ．Reliability test：

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125℃ 2.Time:96 hours.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40℃ ~ 125℃ 2.Number of cycle:96 cycle 3.Dwell time:30 minutes	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature:85±5 ℃ 2.Time:96 Hours 3.Humidity: 85±5% RH.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
4.Operational Life	MIL-PRF-27	1.Temperature: 125℃ 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
5.Exeternal Visual	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 Method JB-100	Verkfy 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 therr cycles.	1.No body change in apperarance. 2.No marking blurred. 3.Inductance shall not change more than ±10%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 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 and 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（temp.≧ 260℃）：10 second. 4.Number of times：3 times.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
12.Over load	MIL-PRF-27	Apply twice as rated current for 5 minutes. (It's not application to some special design)	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
13.Solderability Test	J-STD-002	1.Reflow curve go therough 1 time. 2.The peak temperature：240±5	The terminal shall be at least 95% covered with fresh solder.
14.Electrical Characteriazation	User Spec.	1.Operating temperature：-40℃~125℃ 2.Room temperature：25℃.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DV:500V 2.Time:1minutes	1.During the test no breakdown. 2.The characteristic is normal after test.
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.	1.No case deformation or change in appearance. 2.Inductance shall not change more than ±10%.
17.Terminal Strength Test	JIS-C-6429	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.