

SPECIFICATION FOR APPROVAL

REF. :

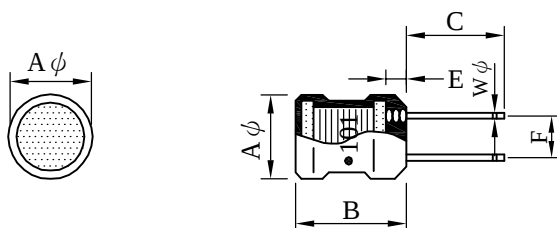
PROD. NAME	Radial Inductor	ABC'S DWG NO.		RB0912□□□□L□-□□□		
		REV.	20130617-E	PAGE	1	

I . Configuration and dimensions :

Marking :

" ● " : Start

● 101----100 uH (Inductance code)



Unit : m/m

$A\phi$	B	C	E	F	$W\phi$
8.70 $\pm$ 0.5	10.00 $\pm$ 1.0	5.00 $\pm$ 1.0	2.50 max.	5.00 $\pm$ 0.8	0.65

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 1.73g (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.)

AR-001C



千如電子集團
ABC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Radial Inductor	ABC'S DWG NO.	RB0912□□□□L□-□□□		
NAME		REV.	20130617-E	PAGE	2

IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	IDC (A) max.
			L	Q			
RB09121R5ML□ -□□□	1.5 $\pm$ 20%	30	1K	7.960M	78.0	0.008	5.40
RB09122R2ML□ -□□□	2.2 $\pm$ 20%	30	1K	7.960M	63.0	0.010	4.50
RB09123R3ML□ -□□□	3.3 $\pm$ 20%	30	1K	7.960M	50.0	0.018	3.60
RB09124R7ML□ -□□□	4.7 $\pm$ 20%	30	1K	7.960M	41.0	0.022	3.10
RB09126R8ML□ -□□□	6.8 $\pm$ 20%	30	1K	7.960M	33.0	0.028	2.50
RB0912100KL□ -□□□	10.0 $\pm$ 10%	60	1K	2.520M	27.0	0.043	2.10
RB0912150KL□ -□□□	15.0 $\pm$ 10%	50	1K	2.520M	21.0	0.056	1.70
RB0912220KL□ -□□□	22.0 $\pm$ 10%	50	1K	2.520M	17.0	0.086	1.40
RB0912330KL□ -□□□	33.0 $\pm$ 10%	45	1K	2.520M	13.0	0.140	1.10
RB0912470KL□ -□□□	47.0 $\pm$ 10%	40	1K	2.520M	11.0	0.170	0.96
RB0912680KL□ -□□□	68.0 $\pm$ 10%	35	1K	2.520M	9.0	0.280	0.79
RB0912101KL□ -□□□	100.0 $\pm$ 10%	55	1K	0.796M	7.2	0.330	0.66
RB0912151KL□ -□□□	150.0 $\pm$ 10%	40	1K	0.796M	5.7	0.560	0.53
RB0912221KL□ -□□□	220.0 $\pm$ 10%	30	1K	0.796M	4.5	0.720	0.44
RB0912331KL□ -□□□	330.0 $\pm$ 10%	25	1K	0.796M	3.6	1.100	0.36
RB0912471KL□ -□□□	470.0 $\pm$ 10%	25	1K	0.796M	2.9	1.700	0.30
RB0912681KL□ -□□□	680.0 $\pm$ 10%	25	1K	0.796M	2.3	2.300	0.25
RB0912102KL□ -□□□	1000.0 $\pm$ 10%	55	1K	0.252M	1.9	4.300	0.20

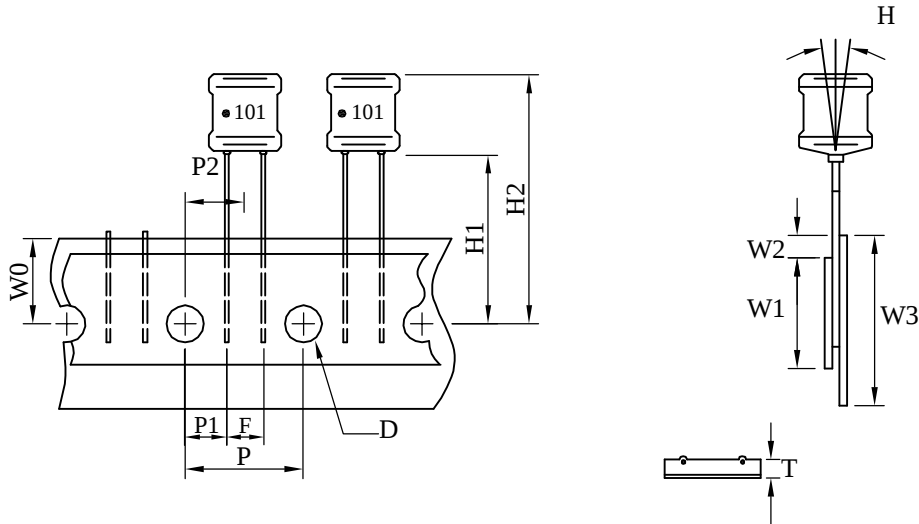
- 1). Electrical specifications at 25°C
- 2). IDC base on Temp. rise 20°C max.

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.		RB0912□□□□L□-□□□		
		REV.	20130617-E	PAGE	3	

V . Packaging information :



Note : color code without regular direction

※ 500 Pcs / Reel

Item	Symbol	Specification			
		Milimeter		Inch	
		Size	Tolerance	Size	Tolerance
Tape feed hole diameter	D	4.00	±0.20	0.157	±0.008
Compnent lead pitch	F	5.00	±0.50	0.200	±0.020
Front-to-rear deflection	H	2.00	Max.	0.079	Max.
Feed hole tobottom of component	H1	18.50	±0.80	0.728	±0.032
Feed hole to overall component height	H2	32.00	Max.	1.083	Max.
Feed hole pitch	P	12.70	±0.30	0.500	±0.012
Lead location	P1	3.85	±0.70	0.152	±0.028
Center of component location	P2	6.35	±1.30	0.250	±0.051
Overall taped package thickness	T	1.42	Max.	0.056	Max.
Feed hole location	W0	9.00	±0.50	0.354	±0.020
Adhesive tape width	W1	15.00	±0.50	0.598	±0.020
Adhesive tape position	W2	4.00	Max.	0.157	Max.
Tape width	W3	18.00	±0.50	0.709	±0.020

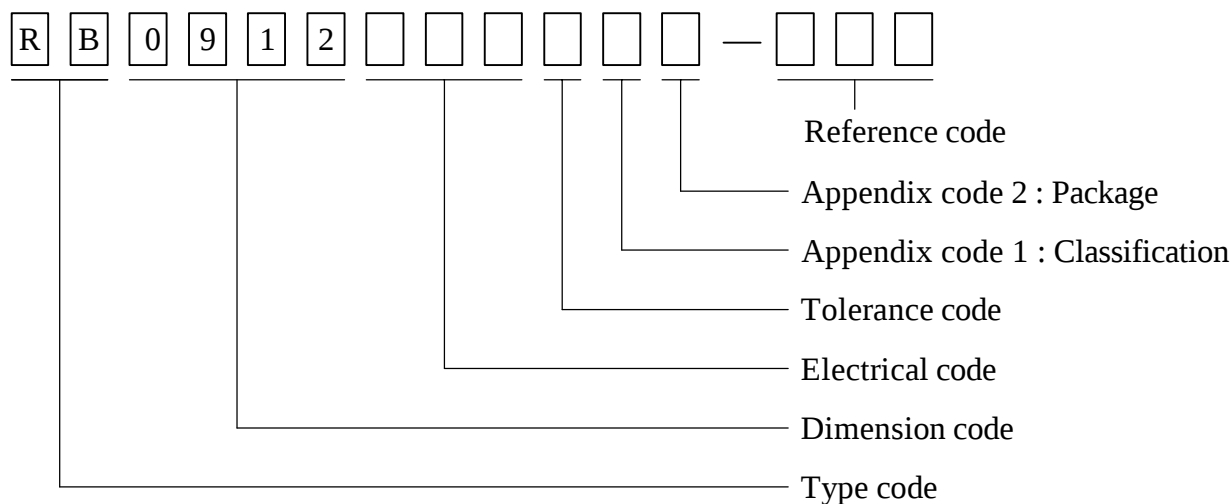
AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB0912□□□□L□-□□□		
		REV.	20130617-E	PAGE	4

VI . 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	Box	200 pcs	
B	Bag	200 pcs	OEL
C	T.B.D.	T.B.D.	
D	T / B (Box package)	1000 pcs	
E	Tray	160 pcs	
F	T / R (Reel package)	500 pcs	
G	Box	200 pcs	Long L/W

AR-001C



千如電子集團
ABC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Radial Inductor	ABC'S DWG NO.		RB0912□□□□L□-□□□	
NAME		REV.	20130617-E	PAGE	5
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	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 therr cycles.		1.No body change in apperaranace. 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	Dip pads in flux then dip in solder pot at 240±5 for 5 senconds.		Teminals area must have 95% min. Solder coverage.	
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.	

AR-001C