SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB1314□□□□L□-□□□		
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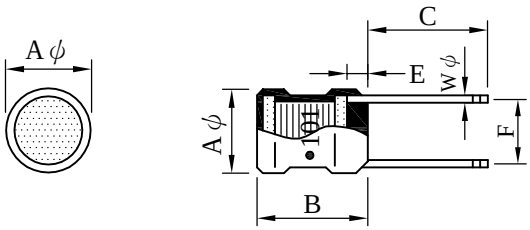
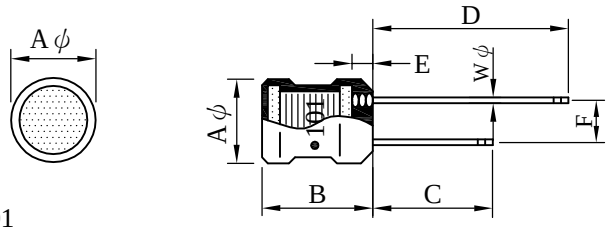
Ⅰ．Configuration and dimensions：



Marking :

" ● " : Start Fig : A (3.3μH~47μH)

● 101----100 uH (Inductance code)



Marking： • 101

" ● "：Start Fig : B (68μH~15mH)

Unit：m/m

Aϕ	B	C	D	E	F	Wϕ
11.70 ±0.8	12.00 ±1.0	15.00 ±3.0	18.00 ±3.0	2.50 max.	9.00 ±1.0 (A) 7.00 ±0.8 (B)	Per spec. (A) 0.80 (B)

Ⅱ．Description：

a．Ferrite drum core construction.

b．Enamelled copper wire：F class

c．Product weight： 4.60g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free available

Ⅲ．General specification：

a．Storage temp.：-40℃ ～ +125℃

b．Operaing temp.：-40℃ ～ +125℃

(Temp. rise included.)

千如電子集團
ABC ELECTRONICS GROUP

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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	IDC (A) max.	Wϕ m/m
			L	Q				
RB13143R3ML□-□□□	3.3 ±20%	90	1K	7.96M	59.00	0.008	5.600	0.8
RB13144R7ML□-□□□	4.7 ±20%	100	1K	7.96M	45.00	0.009	4.700	
RB13146R8ML□-□□□	6.8 ±20%	80	1K	7.96M	34.00	0.012	3.900	0.7
RB1314100ML□-□□□	10.0 ±20%	140	1K	2.52M	26.00	0.015	3.200	
RB1314150ML□-□□□	15.0 ±20%	120	1K	2.52M	19.00	0.019	2.600	
RB1314220KL□-□□□	22.0 ±10%	110	1K	2.52M	14.00	0.026	2.200	
RB1314330KL□-□□□	33.0 ±10%	100	1K	2.52M	10.00	0.045	1.800	0.6
RB1314470KL□-□□□	47.0 ±10%	90	1K	2.52M	8.30	0.056	1.500	
RB1314680KL□-□□□	68.0 ±10%	80	1K	2.52M	6.70	0.092	1.200	0.8
RB1314101KL□-□□□	100.0 ±10%	70	1K	796K	5.40	0.120	1.000	
RB1314151KL□-□□□	150.0 ±10%	70	1K	796K	4.30	0.200	0.820	
RB1314221KL□-□□□	220.0 ±10%	40	1K	796K	3.40	0.250	0.680	
RB1314331KL□-□□□	330.0 ±10%	40	1K	796K	2.70	0.420	0.550	
RB1314471KL□-□□□	470.0 ±10%	30	1K	796K	2.30	0.510	0.460	
RB1314681KL□-□□□	680.0 ±10%	30	1K	796K	1.90	0.790	0.380	
RB1314102KL□-□□□	1000.0 ±10%	40	1K	252K	1.60	1.300	0.310	
RB1314152KL□-□□□	1500.0 ±10%	30	1K	252K	1.30	1.700	0.250	
RB1314222KL□-□□□	2200.0 ±10%	60	1K	252K	1.10	2.900	0.210	
RB1314332KL□-□□□	3300.0 ±10%	50	1K	252K	0.90	3.700	0.170	
RB1314472KL□-□□□	4700.0 ±10%	50	1K	252K	0.76	5.600	0.140	
RB1314682KL□-□□□	6800.0 ±10%	60	1K	252K	0.65	9.400	0.120	
RB1314103KL□-□□□	10000.0 ±10%	80	1K	79.6K	0.53	12.000	0.100	
RB1314153KL□-□□□	15000.0 ±10%	70	1K	79.6K	0.41	15.000	0.082	

1). Electrical specifications at 25℃

2). IDC base on Temp. rise 20℃ max.

3). Lead： 0.6ϕ ～ 0.8ϕ m/m soldered copper wire (3.3uH ～ 47uH)
Lead： 0.8ϕ m/m tinned copper wire (68uH ～ 15mH)

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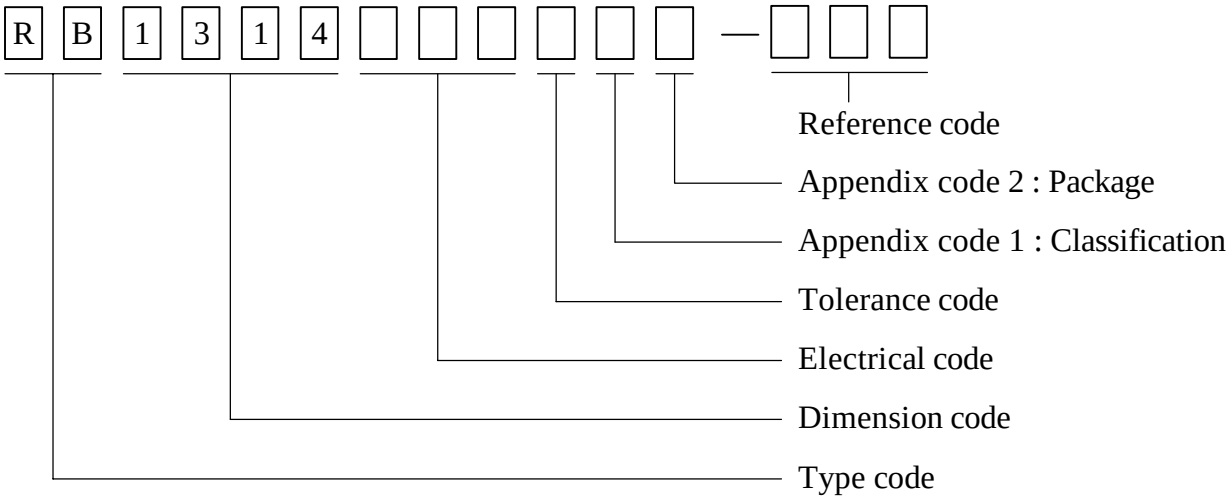
Ⅴ．Dwging number expression：



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	Box	130 pcs	680K～153K
B	Tray	280 pcs	3R3M～470K(A type)
C	Box	150 pcs	3R3M～470K

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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.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 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	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.