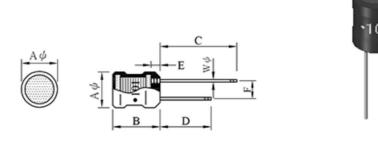


Radial Inductor RB0914-L-

I . Configuration and dimensions:

Marking:

- " " : Start
- 101----100 uH (Inductance code)



Unit: m/m

	Aφ	В	С	D	Е	F	$W\phi$
[8.70 ±0.5	12.00 ±1.0	25.00 ±5.0	18.00 ±5.0	2.50 max.	5.00 ±0.8	0.65

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight: 1.83g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

III . General specification :

a . Storage temp. : -40°C \sim +125°C

b . Operaing temp. : -40°C \sim +125°C

(Temp. rise included.)

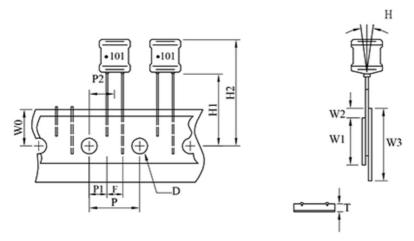
IV . Electrical characteristics:

D.W.G.V.	Indutance	Q	Q Test Freq. (MHz)		SRF	RDC	IDC
DWG No.	(µH)	min.	L	Q	(MHz) min.	(Ω) max.	(A) max.
RB09143R3MLa-aaa	3.3 ±20%	20	7	.96	70.0	0.027	3.60
RB09144R7ML0-000	4.7 ±20%	20	7	.96	50.0	0.033	3.20
RB09146R8ML0-000	6.8 ±20%	20	7	.96	30.0	0.039	3.00
RB0914100KLa-aaa	10.0 ±10%	50	2	.52	20.0	0.048	2.70
RB0914120KLa-aaa	12.0 ±10%	50	2	.52	15.0	0.055	2.50
RB0914150KLa-aaa	15.0 ±10%	50	2	.52	10.0	0.060	2.40
RB0914180KLa-aaa	18.0 ±10%	40	2	.52	9.5	0.065	2.30
RB0914220KLa-aaa	22.0 ±10%	40	2	.52	9.0	0.090	1.90
RB0914270KLa-aaa	27.0 ±10%	40	2	.52	8.5	0.110	1.80
RB0914330KLa-aaa	33.0 ±10%	40	2	.52	8.0	0.120	1.70
RB0914390KLa-aaa	39.0 ±10%	30	2	.52	7.0	0.130	1.60
RB0914470KLa-aaa	47.0 ±10%	30	2	.52	6.0	0.140	1.50
RB0914560KLa-aaa	56.0 ±10%	30	2	.52	5.0	0.200	1.30
RB0914680KL=-===	68.0 ±10%	30	2	.52	4.5	0.210	1.20
RB0914820KLa-aaa	82.0 ±10%	30	2	.52	4.0	0.230	1.10
RB0914101KLa-aaa	100.0 ±10%	30	0	.796	3.5	0.280	1.00
RB0914121KLa-aaa	120.0 ±10%	30	0	.796	3.0	0.320	0.90
RB0914151KLa-aaa	150.0 ±10%	30	0	.796	2.8	0.370	0.80
RB0914181KLn-nnn	180.0 ±10%	30	0	.796	2.6	0.540	0.75
RB0914221KLa-aaa	220.0 ±10%	30	0	.796	2.4	0.600	0.70
RB0914271KLa-aaa	270.0 ±10%	20	0	.796	2.2	0.680	0.65
RB0914331KLa-aaa	330.0 ±10%	20	0	.796	2.0	0.760	0.60
RB0914391KLa-aaa	390.0 ±10%	20	0	.796	1.9	0.850	0.55
RB0914471KLa-aaa	470.0 ±10%	20	0	.796	1.8	1.300	0.50
RB0914561KLa-aaa	560.0 ±10%	20	0	.796	1.7	1.400	0.45
RB0914681KLa-aaa	680.0 ±10%	20	0	.796	1.6	1.600	0.40
RB0914821KLa-aaa	820.0 ±10%	20	0	.796	1.5	1.800	0.35
RB0914102KLa-aaa	1000.0 ±10%	40	0	.252	1.3	2,100	0.30

^{1).} Electrical specifications at $25^{\circ}\!\mathrm{C}$

^{2).} IDC base on Temp. rise 20°C max.

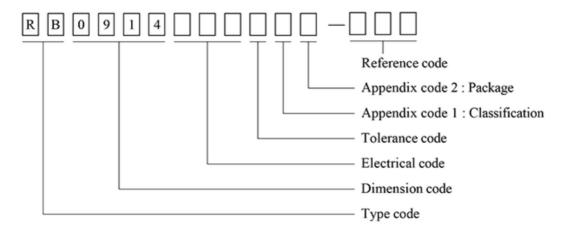
V . Packaging information :



※ 500 Pcs / Reel

		Specification			
Item	Symbol	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	Н	2.00	Max.	0.079	Max.
Feed hole tobottom of component	HI	18.50	±0.80	0.728	±0.040
Feed hole to overall component height	H2	32.50	Max.	1.280	Max.
Feed hole pitch	P	12.70	±0.30	0.500	±0.012
Lead location	Pl	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	WO	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

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	Tray	200 pcs	
В	Bag	100 pcs	
С	T.B.D.	T.B.D.	
D	T/R (Reel Package)	500 pcs	

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.	No mechanical and electrical damage. Inductance shall not change more than ±10%.	
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40°C ~ 125°C 2.Number of eyele:96 eyele 3.Dwell time:30 minutes	No mechanical and electrical damage. Inductance shall not change more than ±10%.	
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature: 85±5 °C 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	Operational Life MIL-PRF-27 1.Temperature: 125°C 2.Time:96 hours. 3.Apply rated current.		No mechanical and electrical damage. Inductance shall not change more than ±10%.	
5.Exeternal Visual	MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	No pollution on the surface of products. Clear marking. 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.	No body change in apperarance. No marking blurred. 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.	No mechanical and electrical damage. 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°C): 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.	No mechanical and electrical damage. 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)	No mechanical and electrical damage. 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°C~125°C 2.Room temperature: 25°C.	No mechanical and electrical damage. Inductance shall not change more than ±10%.	
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DV:500V 2.Time:1minutes	During the test no breakdown. The characteristic is normal after test.	
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.	No case deformation or change in appearance. Inductance shall not change more than ±10%.	
17.Terminal Strength Test	ЛЅ-С-6429	Apply push force to samples mounted on PCB. Erore of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.	