

SPECIFICATION FOR APPROVAL

REF. :

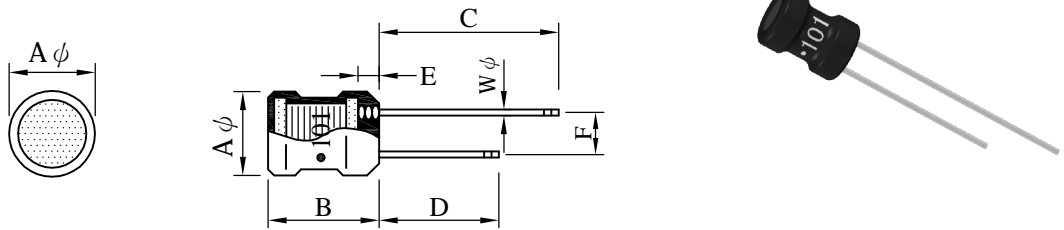
PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB0812□□□□L□-□□□		
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I . Configuration and dimensions :

Marking :

" ● " : Start

● 101----100 uH (Inductance code)



Unit : mm

Aφ	B	C	D	E	F	Wφ
6.70 ±0.5	10.00 ±1.0	25.00 ±5.0	18.00 ±5.0	2.50 max.	3.00 ±0.5	0.65

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F & H class
- c . Product weight : 1.36g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free

III . General specification :

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

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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q min.	Test Freq. (MHz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
RB0812470KL□-□□□	47 \pm 10%	30	2.52		6.00	0.40	450
RB0812560KL□-□□□	56 \pm 10%	30	2.52		5.50	0.45	400
RB0812680KL□-□□□	68 \pm 10%	30	2.52		5.00	0.50	360
RB0812820KL□-□□□	82 \pm 10%	30	2.52		4.50	0.50	340
RB0812101KL□-□□□	100 \pm 10%	45	0.796		4.20	0.60	320
RB0812121KL□-□□□	120 \pm 10%	45	0.796		3.60	0.70	300
RB0812151KL□-□□□	150 \pm 10%	45	0.796		3.40	0.90	280
RB0812181KL□-□□□	180 \pm 10%	45	0.796		3.20	1.00	260
RB0812221KL□-□□□	220 \pm 10%	45	0.796		3.00	1.20	240
RB0812271KL□-□□□	270 \pm 10%	45	0.796		2.80	1.40	220
RB0812331KL□-□□□	330 \pm 10%	45	0.796		2.50	1.60	200
RB0812391KL□-□□□	390 \pm 10%	45	0.796		2.30	1.80	180
RB0812471KL□-□□□	470 \pm 10%	45	0.796		2.20	2.00	160
RB0812561KL□-□□□	560 \pm 10%	45	0.796		2.00	2.50	150
RB0812681KL□-□□□	680 \pm 10%	45	0.796		1.70	2.90	140
RB0812821KL□-□□□	820 \pm 10%	45	0.796		1.50	3.10	130
RB0812102KL□-□□□	1000 \pm 10%	45	0.252		1.40	3.90	120
RB0812122KL□-□□□	1200 \pm 10%	60	0.252		1.10	4.40	110
RB0812152KL□-□□□	1500 \pm 10%	60	0.252		0.90	6.00	100
RB0812182KL□-□□□	1800 \pm 10%	60	0.252		0.80	7.00	90
RB0812222KL□-□□□	2200 \pm 10%	60	0.252		0.75	8.00	80
RB0812272KL□-□□□	2700 \pm 10%	60	0.252		0.70	9.00	70
RB0812332KL□-□□□	3300 \pm 10%	60	0.252		0.60	12.00	60
RB0812392KL□-□□□	3900 \pm 10%	60	0.252		0.55	14.00	55
RB0812472KL□-□□□	4700 \pm 10%	60	0.252		0.50	16.00	50
RB0812562KL□-□□□	5600 \pm 10%	60	0.252		0.48	18.00	45
RB0812682KL□-□□□	6800 \pm 10%	60	0.252		0.44	24.00	40
RB0812822KL□-□□□	8200 \pm 10%	60	0.252		0.40	30.00	36
RB0812103KL□-□□□	10000 \pm 10%	60	0.0796		0.36	39.00	34
RB0812123KL□-□□□	12000 \pm 10%	60	0.0796		0.32	46.00	32
RB0812153KL□-□□□	15000 \pm 10%	60	0.0796		0.30	54.00	30
RB0812183KL□-□□□	18000 \pm 10%	60	0.0796		0.28	76.00	27
RB0812223KL□-□□□	22000 \pm 10%	60	0.0796		0.24	92.00	25
RB0812273KL□-□□□	27000 \pm 10%	60	0.0796		0.20	102.00	22
RB0812333KL□-□□□	33000 \pm 10%	60	0.0796		0.16	140.00	20
RB0812393KL□-□□□	39000 \pm 10%	60	0.0796		0.13	150.00	18
RB0812473KL□-□□□	47000 \pm 10%	60	0.0796		0.10	162.00	16

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

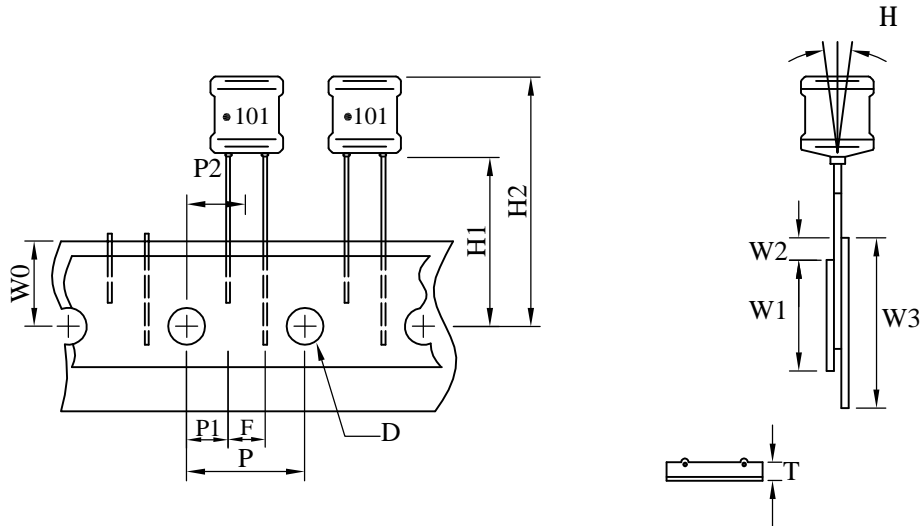
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V . Packaging information :



※ 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
Component lead pitch	F	3.00	±0.50	0.118	±0.020
Front-to-rear deflection	H	2.00	max.	0.079	max.
Feed hole to bottom of component	H1	18.50	±0.80	0.728	±0.031
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	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	0.591	±0.020
Adhesive tape position	W2	4.00	max.	0.157	max.
Tape width	W3	18.00	±0.50	0.709	±0.020

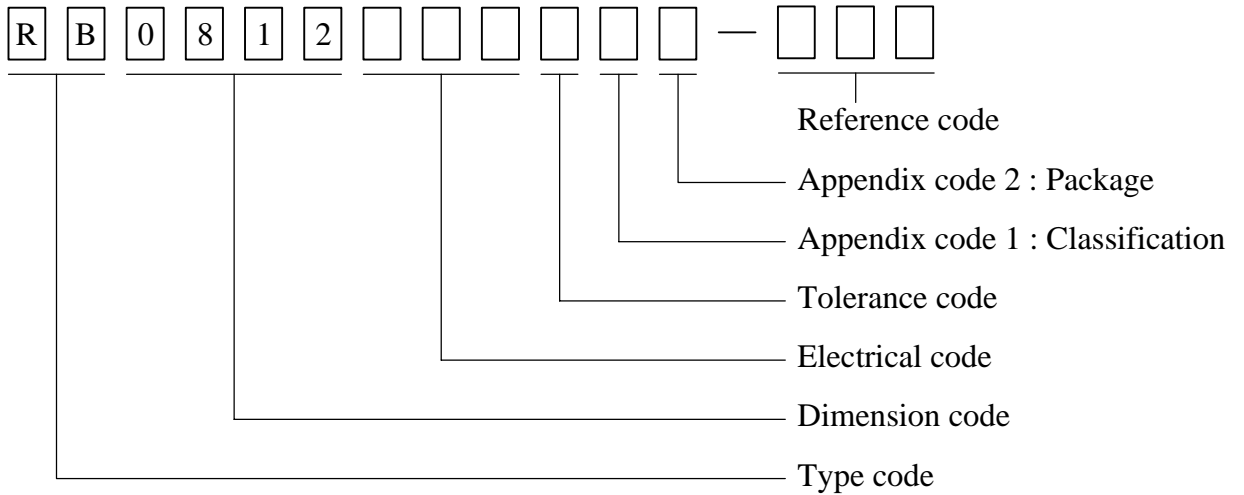
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VI . Drawing number expression :



Appendix code 1 : Product Classification

Appendix code 2 : Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
A	Box	N / A	N / A	N / A	400 pcs	
B	Bag	N / A	N / A	Non-antistatic	200 pcs	
C	Tray	N / A	N / A	N / A	160 pcs	
D	Box	N / A	N / A	N / A	200 pcs	
E	T / R (Reel Package)	Adhesive	Paper tape	N / A	500 pcs	
F	Tray	N / A	N / A	N / A	200 pcs	

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VII . 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 cycles. 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 apperance. 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 seconds. 4.Number of times : 3 times.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.
10.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
11.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 20℃ max.
12.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.
13.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%.
14.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 times (Every side of sample drop 2 times)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
15.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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