

SPECIFICATION FOR APPROVAL

REF. :

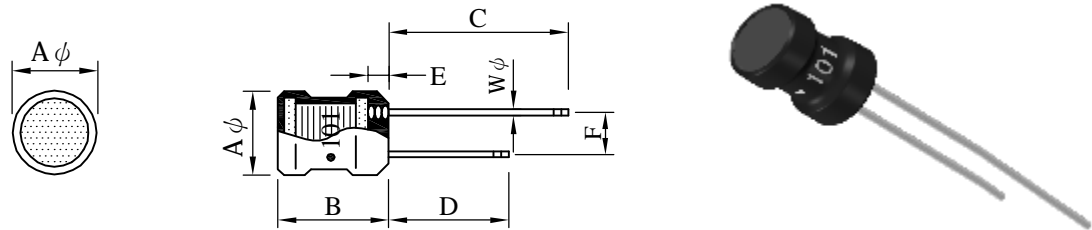
PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB0712□□□□L□-□□□		
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I . Configuration and dimensions :

Marking :

" ● " : Start

● 101----100 uH (Inductance code)



Unit : m/m

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 class
- c . Product weight : 1.23g (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.)

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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q min.	Test Freq. (Hz)		SRF (MHz) min.	RDC (Ω) max.	IDC (A) max.
			L	Q			
RB0712100KL□-□□□	10 \pm 10%	20	1K	2.520M	16.0	0.07	1.10
RB0712120KL□-□□□	12 \pm 10%	20	1K	2.520M	12.0	0.08	1.00
RB0712150KL□-□□□	15 \pm 10%	20	1K	2.520M	10.0	0.09	0.90
RB0712180KL□-□□□	18 \pm 10%	20	1K	2.520M	10.0	0.10	0.75
RB0712220KL□-□□□	22 \pm 10%	20	1K	2.520M	9.0	0.12	0.70
RB0712270KL□-□□□	27 \pm 10%	20	1K	2.520M	8.0	0.13	0.65
RB0712330KL□-□□□	33 \pm 10%	20	1K	2.520M	7.0	0.15	0.60
RB0712390KL□-□□□	39 \pm 10%	20	1K	2.520M	6.0	0.16	0.55
RB0712470KL□-□□□	47 \pm 10%	20	1K	2.520M	6.0	0.18	0.45
RB0712560KL□-□□□	56 \pm 10%	20	1K	2.520M	5.0	0.21	0.40
RB0712680KL□-□□□	68 \pm 10%	20	1K	2.520M	5.0	0.24	0.36
RB0712820KL□-□□□	82 \pm 10%	20	1K	2.520M	5.0	0.35	0.34
RB0712101KL□-□□□	100 \pm 10%	20	1K	0.796M	4.0	0.40	0.32
RB0712121KL□-□□□	120 \pm 10%	20	1K	0.796M	4.0	0.45	0.30
RB0712151KL□-□□□	150 \pm 10%	20	1K	0.796M	3.5	0.50	0.28
RB0712181KL□-□□□	180 \pm 10%	20	1K	0.796M	3.0	0.75	0.26
RB0712221KL□-□□□	220 \pm 10%	20	1K	0.796M	3.0	0.90	0.24
RB0712271KL□-□□□	270 \pm 10%	20	1K	0.796M	2.5	1.00	0.22
RB0712331KL□-□□□	330 \pm 10%	20	1K	0.796M	2.5	1.10	0.20
RB0712391KL□-□□□	390 \pm 10%	20	1K	0.796M	2.0	1.20	0.18
RB0712471KL□-□□□	470 \pm 10%	20	1K	0.796M	2.0	1.50	0.16
RB0712561KL□-□□□	560 \pm 10%	20	1K	0.796M	2.0	1.80	0.15

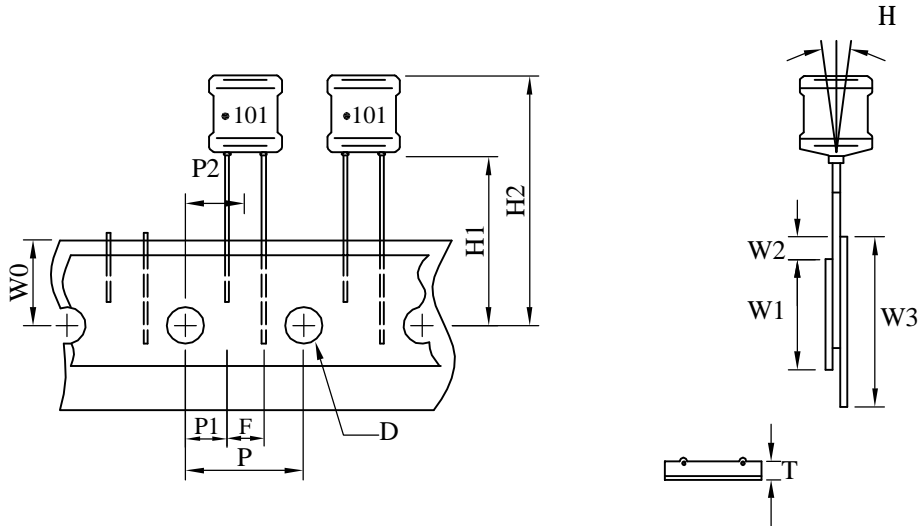
- 1). Electrical specifications at 25°C
- 2). IDC base on Temp. rise 20°C max.

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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	0.200	±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	±0.040
Feed hole to overall component height	H2	30.50	MAX.	1.280	MAX.
Feed hole pitch	P	12.70	±0.30	0.500	±0.012
Lead location	P1	4.85	±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

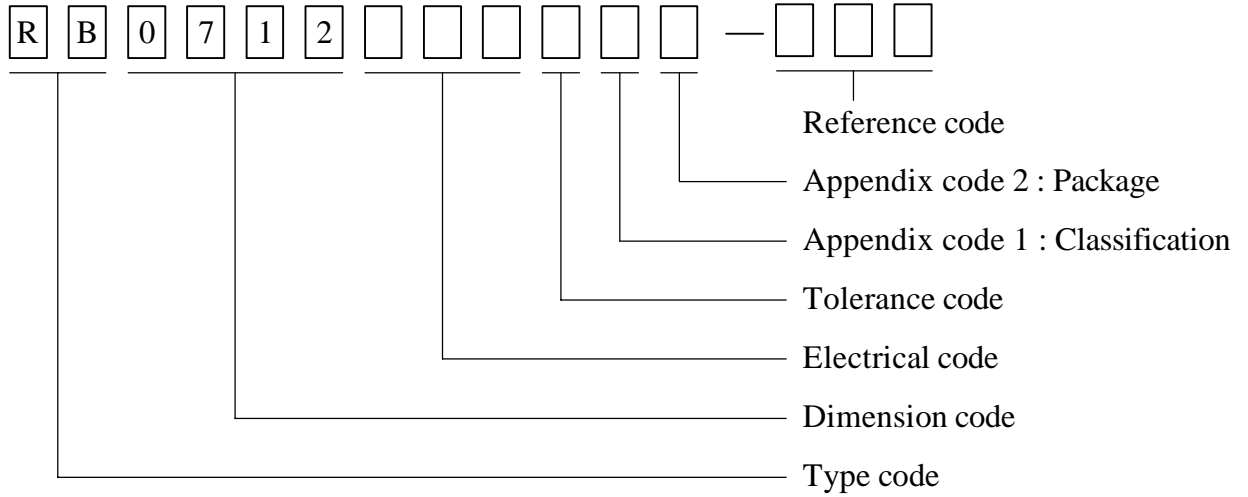
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VI . Dwging number expression :



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	400 pcs	
B	T / R (Reel Package)	500 pcs	
C	Bag	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°C 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°C ~ 125°C 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 °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	MIL-PRF-27	1.Temperature: 125°C 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±10%.
5.External 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 their cycles.	1.No body change in appearance. 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°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.	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 seconds.	Terminals area must have 95% min. Solder coverage.
14.Electrical Characteriazation	User Spec.	1.Operating temperature : -40°C~125°C 2.Room temperature : 25°C.	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.

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