SPECIFICATION FOR APPROVAL

REF. :

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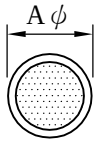
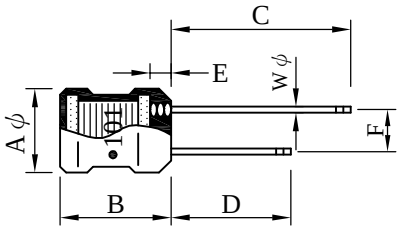
Ⅰ．Configuration and dimensions：

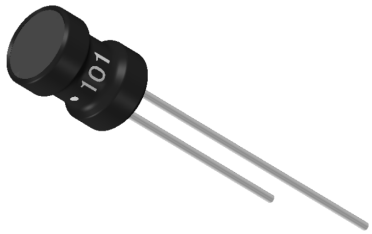
Matking :

" ● " : 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 class

c．Product weight： 1.23g（ref.）

d．Moisture sensitivity Level 1

e．Products comply with RoHS' requirements

f．Halogen free

Ⅲ．General specification：

a．Storage temp.：-40℃ ～ +125℃

b．Operating temp.：-40℃ ～ +125℃

(Temp. rise included.)

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Ⅳ．Electrical characteristics：

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

1). Electrical specifications at 25℃

2). IDC base on Temp. rise 20℃ max.

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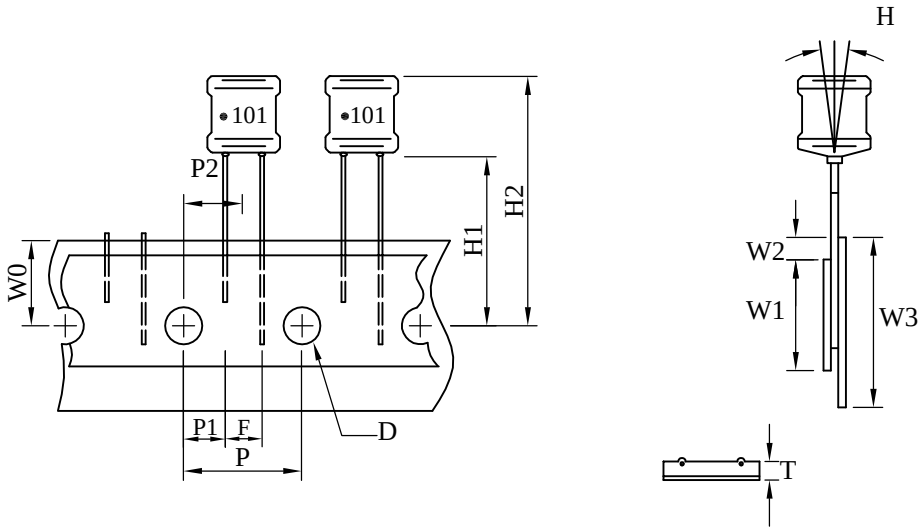
Ⅴ．Packaging information：



※ 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
Compnent lead pitch	F	3.00	±0.50	0.118	±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	±0.031
Feed hole to overall component height	H2	30.50	max.	1.201	max.
Feed hole pitch	P	12.70	±0.30	0.500	±0.012
Lead location	P1	4.85	±0.70	0.191	±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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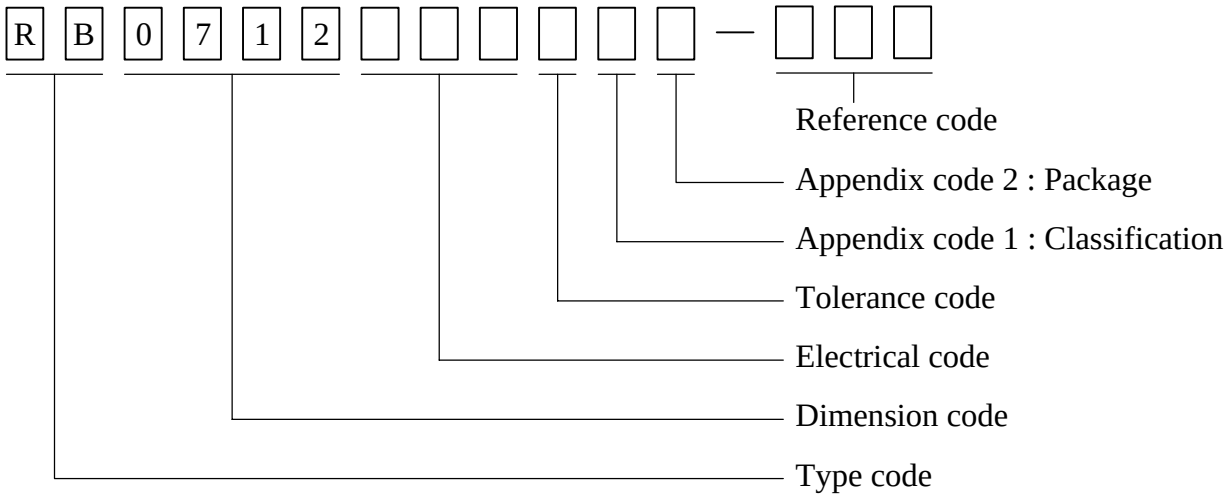
Ⅵ．Drawing number expression：



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	T / R (Reel Package)	Adhesive	Paper tape	N / A	500 pcs	
C	Bag	N / A	N / A	N / A	200 pcs	
D	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 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 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 senconds.	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.