SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB0608□□□□L□-□□□		
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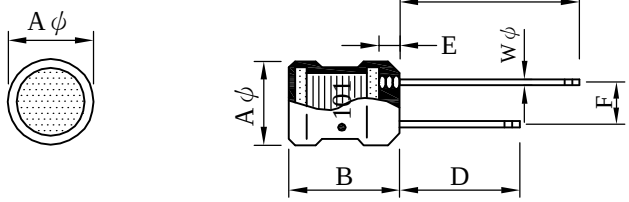
Ⅰ．Configuration and dimensions：

Marking :

" ● " : Start

● 101----100 uH (Inductance code)



Unit：m/m

Aϕ	B	C	D	E	F	Wϕ
5.00 ±0.5	$6.50^{+1.0}_{-0.5}$	28.00 ±5.0	20.00 ±5.0	2.50 max.	2.00 ±0.5	0.50

Ⅱ．Description：

a．Ferrite drum core construction.

b．Enamelled copper wire：F class

c．Product weight： 0.40g（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.)

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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	Q min.	Test Freq. (MHz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
RB06081R0ML□-□□□	1.0 ±20%	60	7.96		105.0	0.10	1030
RB06081R2ML□-□□□	1.2 ±20%	60	7.96		90.0	0.15	980
RB06081R5ML□-□□□	1.5 ±20%	60	7.96		75.0	0.20	920
RB06081R8ML□-□□□	1.8 ±20%	60	7.96		70.0	0.22	880
RB06082R2ML□-□□□	2.2 ±20%	60	7.96		65.0	0.24	830
RB06082R7ML□-□□□	2.7 ±20%	60	7.96		60.0	0.27	790
RB06083R3ML□-□□□	3.3 ±20%	60	7.96		50.0	0.30	750
RB06083R9ML□-□□□	3.9 ±20%	60	7.96		45.0	0.30	720
RB06084R7ML□-□□□	4.7 ±20%	60	7.96		40.0	0.35	670
RB06085R6KL□-□□□	5.6 ±10%	60	7.96		35.0	0.35	640
RB06086R8KL□-□□□	6.8 ±10%	60	7.96		30.0	0.40	620
RB06088R2KL□-□□□	8.2 ±10%	60	7.96		25.0	0.40	590
RB0608100KL□-□□□	10.0 ±10%	60	2.52		20.0	0.45	550
RB0608120KL□-□□□	12.0 ±10%	60	2.52		15.0	0.50	530
RB0608150KL□-□□□	15.0 ±10%	60	2.52		13.0	0.55	500
RB0608180KL□-□□□	18.0 ±10%	60	2.52		11.0	0.60	480
RB0608220KL□-□□□	22.0 ±10%	60	2.52		10.0	0.65	460
RB0608270KL□-□□□	27.0 ±10%	50	2.52		9.0	0.75	430
RB0608330KL□-□□□	33.0 ±10%	50	2.52		8.0	0.85	410
RB0608390KL□-□□□	39.0 ±10%	50	2.52		7.5	0.90	390
RB0608470KL□-□□□	47.0 ±10%	50	2.52		7.0	1.00	370
RB0608560KL□-□□□	56.0 ±10%	50	2.52		6.5	1.20	350
RB0608680KL□-□□□	68.0 ±10%	50	2.52		6.0	1.30	340
RB0608820KL□-□□□	82.0 ±10%	50	2.52		5.5	1.50	320
RB0608101KL□-□□□	100.0 ±10%	50	0.796		5.0	1.70	305
RB0608121KL□-□□□	120.0 ±10%	50	0.796		4.8	1.90	290
RB0608151KL□-□□□	150.0 ±10%	50	0.796		4.4	2.10	275
RB0608181KL□-□□□	180.0 ±10%	50	0.796		4.2	2.30	235
RB0608221KL□-□□□	220.0 ±10%	45	0.796		3.8	2.50	200
RB0608271KL□-□□□	270.0 ±10%	45	0.796		3.6	2.75	180
RB0608331KL□-□□□	330.0 ±10%	45	0.796		3.3	4.68	165
RB0608391KL□-□□□	390.0 ±10%	45	0.796		3.0	6.00	150
RB0608471KL□-□□□	470.0 ±10%	55	0.796		2.8	6.50	140
RB0608561KL□-□□□	560.0 ±10%	55	0.796		2.4	8.50	135
RB0608681KL□-□□□	680.0 ±10%	55	0.796		2.2	9.00	125
RB0608821KL□-□□□	820.0 ±10%	55	0.796		2.0	9.60	120
RB0608102KL□-□□□	1000.0 ±10%	55	0.252		1.8	11.50	100

1). Electrical specifications at 25℃

2). IDC base on Temp. rise 20℃ max.

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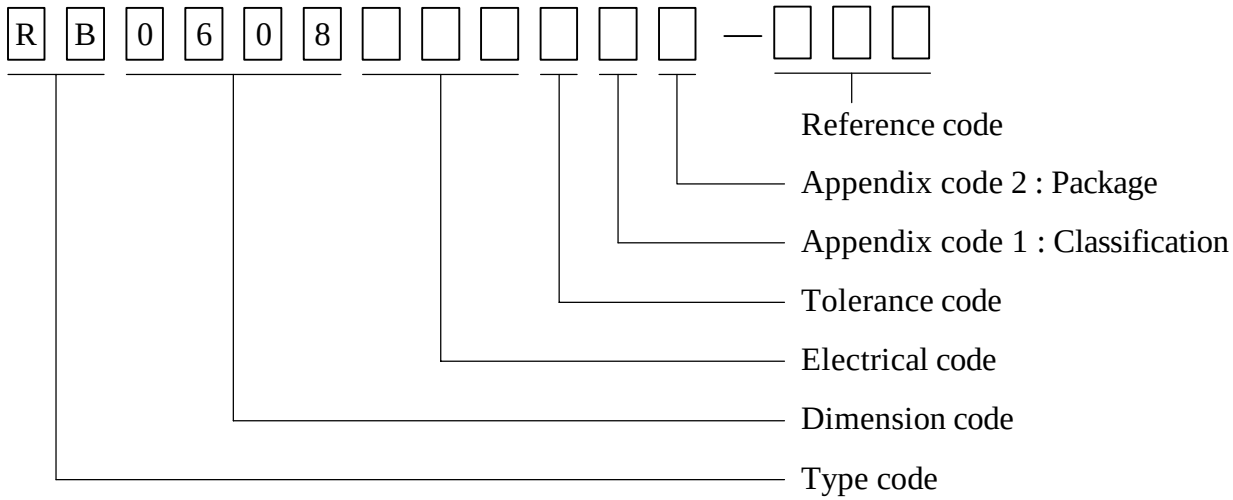
Ⅴ．Dwging number expression：



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	800 pcs	
B	Bag	200 pcs	
C	T.B.D.	T.B.D.	

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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.