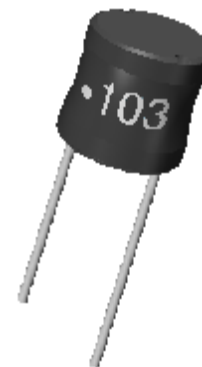
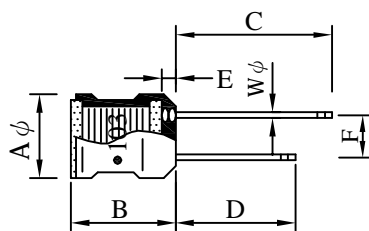
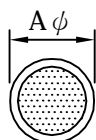


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB1010□□□□L□-□□□		
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I . Configuration and dimensions :



Marking : " ● " : 103

Unit : m/m

A	B	C	D	E	F	Wφ
10.7 ±0.8	11.0 ±0.8	18.0 ±3.0	15.0 ±3.0	1.50 max.	7.00 ±0.8	0.80

II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : F class
- c . Product weight : 2.86g (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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千如電子集團
ABC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

REF. :

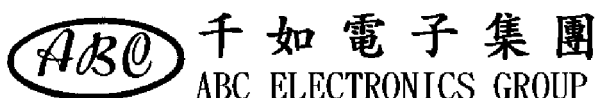
PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB1010□□□□L□-□□□		
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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Q min.	Test Freq. (Hz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
RB1010101KL□-□□□	100 \pm 10%	30	1V/1K	0.796M	3.500	0.12	900
RB1010121KL□-□□□	120 \pm 10%	40	1V/1K	0.796M	3.000	0.18	820
RB1010151KL□-□□□	150 \pm 10%	35	1V/1K	0.796M	2.800	0.20	780
RB1010181KL□-□□□	180 \pm 10%	30	1V/1K	0.796M	2.600	0.23	680
RB1010221KL□-□□□	220 \pm 10%	30	1V/1K	0.796M	2.200	0.28	620
RB1010271KL□-□□□	270 \pm 10%	28	1V/1K	0.796M	2.000	0.32	520
RB1010331KL□-□□□	330 \pm 10%	22	1V/1K	0.796M	1.800	0.38	480
RB1010391KL□-□□□	390 \pm 10%	20	1V/1K	0.796M	1.700	0.43	430
RB1010471KL□-□□□	470 \pm 10%	17	1V/1K	0.796M	1.600	0.50	400
RB1010561JL□-□□□	560 \pm 5%	18	1V/1K	0.796M	1.500	0.65	370
RB1010681JL□-□□□	680 \pm 5%	15	1V/1K	0.796M	1.300	0.80	330
RB1010821JL□-□□□	820 \pm 5%	18	1V/1K	0.796M	1.220	1.00	300
RB1010102JL□-□□□	1000 \pm 5%	15	1V/1K	0.252M	1.100	1.20	270
RB1010122JL□-□□□	1200 \pm 5%	13	1V/1K	0.252M	1.000	1.30	250
RB1010152JL□-□□□	1500 \pm 5%	35	1V/1K	0.252M	0.820	1.80	220
RB1010182JL□-□□□	1800 \pm 5%	30	1V/1K	0.252M	0.780	2.20	200
RB1010222JL□-□□□	2200 \pm 5%	40	1V/1K	0.252M	0.720	2.80	180
RB1010272JL□-□□□	2700 \pm 5%	35	1V/1K	0.252M	0.680	3.20	160
RB1010332JL□-□□□	3300 \pm 5%	30	1V/1K	0.252M	0.660	3.60	155
RB1010392JL□-□□□	3900 \pm 5%	30	1V/1K	0.252M	0.600	4.20	140
RB1010472JL□-□□□	4700 \pm 5%	25	1V/1K	0.252M	0.480	5.40	130
RB1010562JL□-□□□	5600 \pm 5%	25	1V/1K	0.252M	0.450	6.00	120
RB1010682JL□-□□□	6800 \pm 5%	25	1V/1K	0.252M	0.380	7.50	110
RB1010822JL□-□□□	8200 \pm 5%	25	1V/1K	0.252M	0.350	8.60	105
RB1010103JL□-□□□	10000 \pm 5%	50	1V/1K	79.6K	0.340	10.00	100
RB1010123JL□-□□□	12000 \pm 5%	45	1V/1K	79.6K	0.300	13.50	80
RB1010153JL□-□□□	15000 \pm 5%	50	1V/1K	79.6K	0.280	17.00	70
RB1010183JL□-□□□	18000 \pm 5%	45	1V/1K	79.6K	0.230	21.00	55
RB1010223JL□-□□□	22000 \pm 5%	55	1V/1K	79.6K	0.200	25.00	52
RB1010273JL□-□□□	27000 \pm 5%	50	1V/1K	79.6K	0.190	32.00	48
RB1010333JL□-□□□	33000 \pm 5%	45	1V/1K	79.6K	0.180	40.00	40
RB1010393JL□-□□□	39000 \pm 5%	40	1V/1K	79.6K	0.160	45.00	37
RB1010473JL□-□□□	47000 \pm 5%	40	1V/1K	79.6K	0.150	52.00	32
RB1010563JL□-□□□	56000 \pm 5%	35	1V/1K	79.6K	0.130	66.00	30
RB1010683JL□-□□□	68000 \pm 5%	35	1V/1K	79.6K	0.125	78.00	24
RB1010823JL□-□□□	82000 \pm 5%	35	1V/1K	79.6K	0.120	105.00	22
RB1010104JL□-□□□	100000 \pm 5%	30	1V/1K	25.2K	0.100	140.00	20

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

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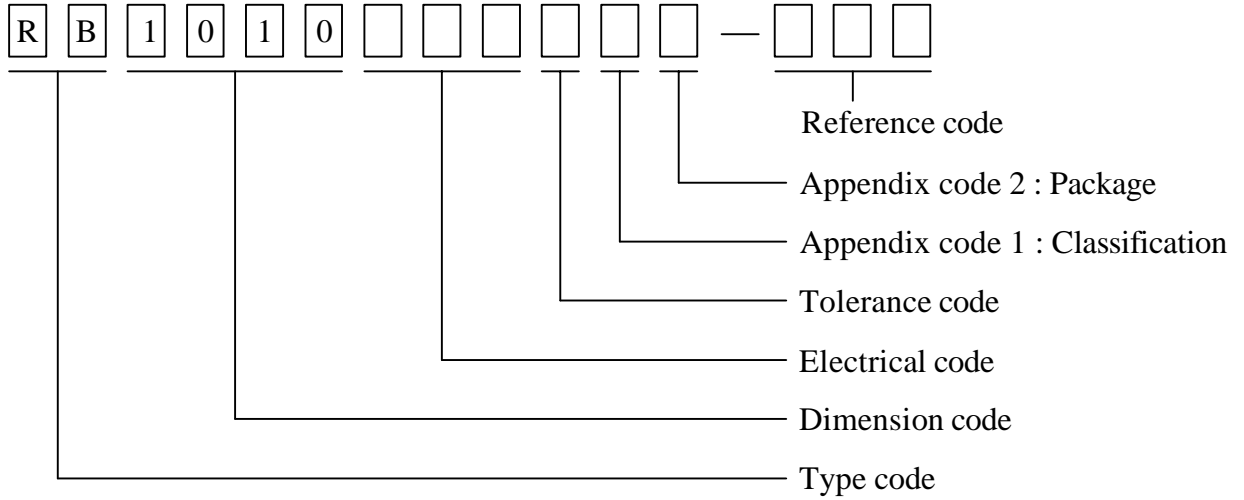


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PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB1010□□□□L□-□□□		
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V . Dwging number expression :



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	145 pcs	

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Radial Inductor	ABC'S DWG NO.	RB1010□□□□L□-□□□		
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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°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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