

S P E C I F I C A T I O N

APPLICATION FOR APPROVAL OF

■	ITEM	:	RADIAL INDUCTOR	■
■	DESCRIPTION	:	DR 6.5 X 7.5mm	■
■	CODE NO	:	DR2)1uH (Bulk & TAPPING)	■
■	MODEL NO	:		■

This space is used for customer's approval

DATE : 2013.03.07.

DRAWN BY Y . H . JEON	DATA 2013.03.07.
CHECKED BY	DATA
APPROVED BY J . G . KIM	DATA 2013.03.07.

CUSTOMER :

SPECIFICATION		SHEET NO.	1 OF 8
		DATA	2013.03.07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0K)	DESCRIPTION	DR 6.5 X 7.5mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 1uH **RADIAL INDUCTOR(or PEAKNG COIL)** for use in electronic appliances which is supplied for

2. MECHANICAL CHARACTERISTIC

PEAKING COIL shall conform in size, dimension, and other mechanical properties, to the part drawing attached here to.

1) Marking

PEAKING COIL shall be permanently and legibly marked with the part number on the specification position.

2) Terminal strength

Terminal shall withstand for 30 seconds without breakdown on losing when a static load of 2 Kg is applied in the drawing direction to the terminal at the point where the external load.

3. ENVIRONMENTAL & LIFE CHARACTERISTIC

1) Temperature rise

Temperature rise of the each winding and core shall be less than ambient + 65°C , when the **PEAKING COIL** continuously operated at full load(test load) until constant temperature is attained.

2) Heat-resistance

Immediately after **PEAKING COIL** being placed in room for 96 Hours maintained AT 105°C ± 2°C ambient temperature, the **PEAKING COIL** shall conform with the above part paragraph (4) and also insulation resistance shall be more than 100 MΩ.

3) Moisture resistance

Immediately after **PEAKING COIL** being placed in room for 120 Hours in such humidity chamber this is maintained at 90 - 95% relative humidity and 55°C ± 2°C temperature and wipped a drop of water, **PEAKING COIL** shall conform with the above paragraph(4) and also insulation shall be the 10 MΩ.

4) Safety consideration

PEAKING COIL shall meet all the requirements subject to IEC-950 standards for safety of information technology equipment including electrical business equipment.

5) Solderabilitly

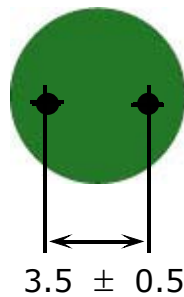
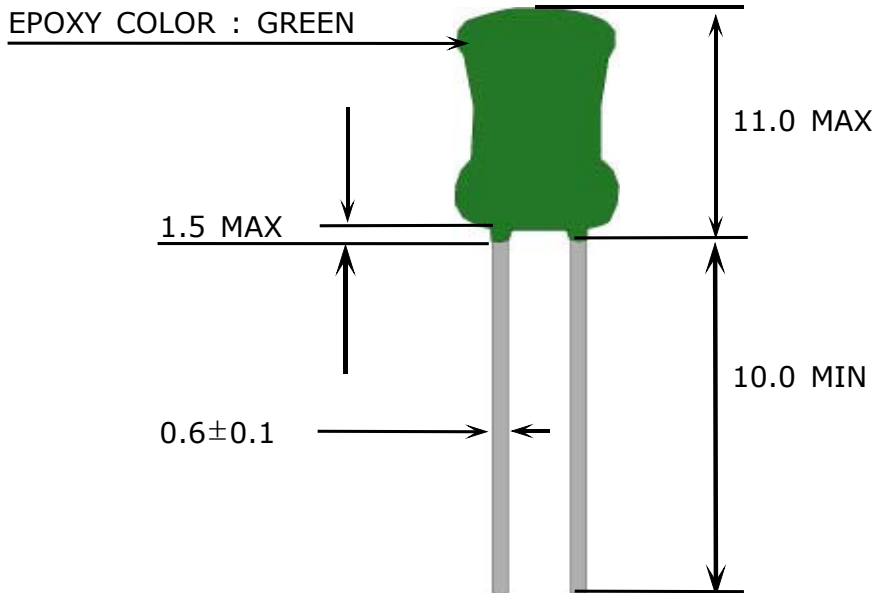
Dip pads in RMA flux, 96.5/0.5/3 solder (Sn/Cu/Ag)at 260°C for 5±2 seconds

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CUSTOMER :

SPECIFICATION		SHEET NO.	2 OF 8
		DATA	2013.03.07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0K)	DESCRIPTION	DR 6.5 X 7.5mm

4. APPEARANCE & DIMENSION (UNIT:mm)



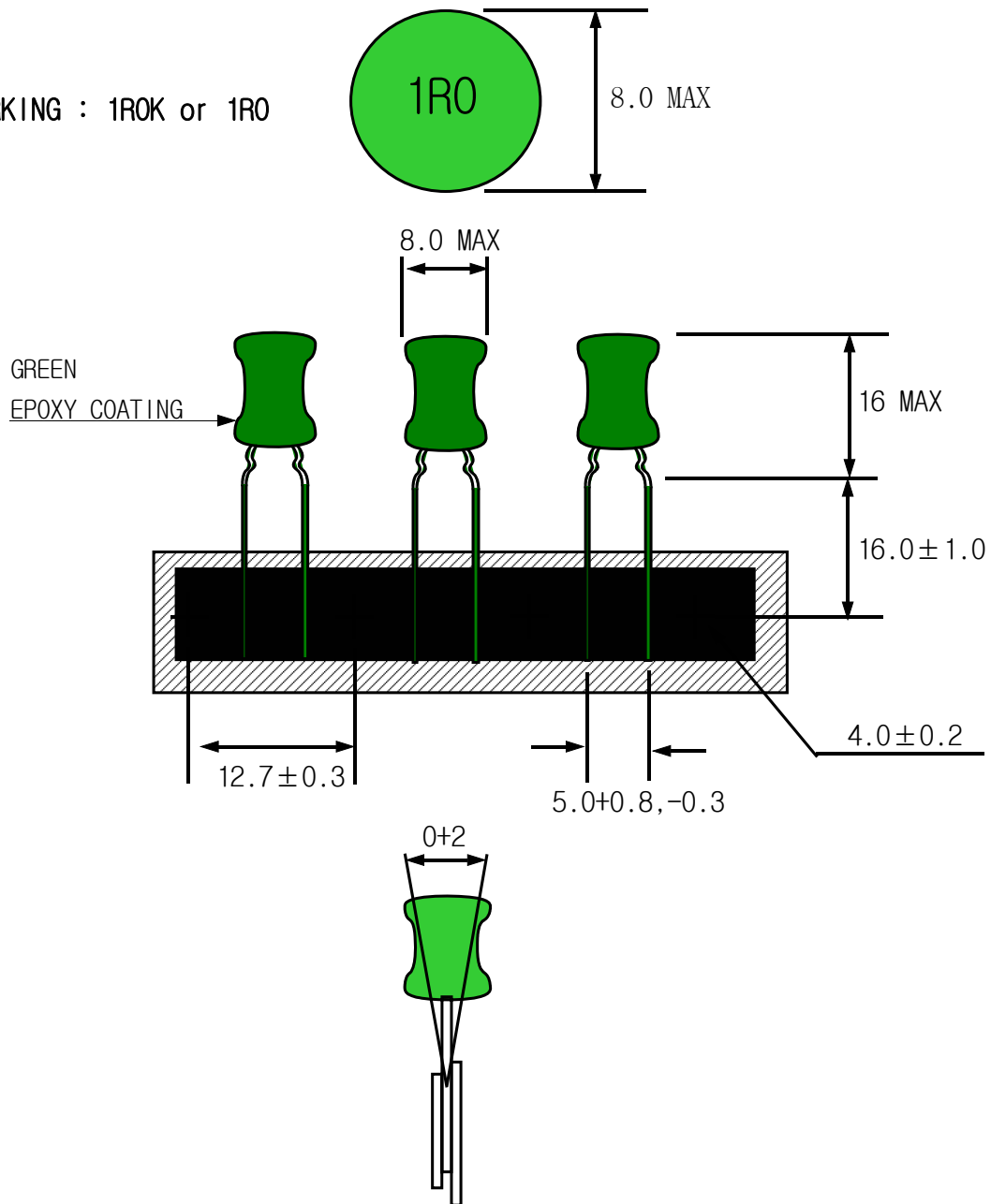
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CUSTOMER :

SPECIFICATION		SHEET NO.	3 OF 8
		D A T E	2013.03.07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-1uH-T.B	DESCRIPTION	DR 6.5 × 7.5mm

4-2. APPEARANCE & DIMENSION (UNIT:m/m)

MARKING : 1R0K or 1R0



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CUSTOMER :

SPECIFICATION		SHEET NO.	4 OF 8
		DATA	2013.03.07..
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0K)	DESCRIPTION	DR 6.5 X 7.5mm

5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.65Φ	6.5 Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

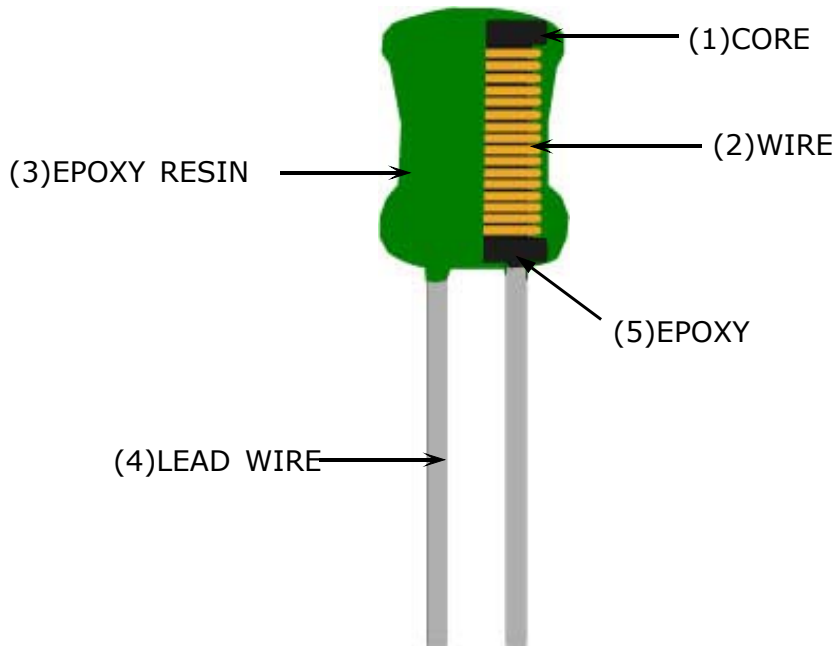
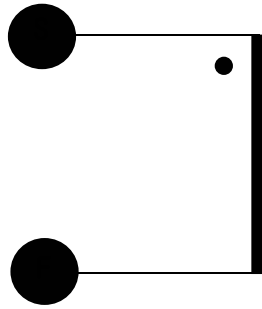
NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	1 [uH] ± 20 [%]	HIOKI3522 LCR METER at 1kHz 1V
2	LC RESISTANCE	START & FINISH	0.02m [Ω] MAX	HIOKI3522 LCR METER at 1kHz 1V
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC 1 [KV] , FREQUANCY 60 [Hz] , 1 MINUTES, CUT OFF CURENT 2 [mA]	NO BREAKDOWN HPT-5010
4	INSULATION RESISTANCE	COIL & CORE	DC 500 [V] , 100 [MΩ] MIN	DM-500AD

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CUSTOMER :

SPECIFICATION		SHEET NO.	5 OF 8
		DATA	2013.03.07..
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0K)	DESCRIPTION	DR 6.5 X 7.5mm

7. SCHEMATIC DIAGRAM



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CUSTOMER :

SPECIFICATION		SHEET NO.	6 OF 8
		DATA	2013.03.07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0K)	DESCRIPTION	DR 6.5 X 7.5mm

8. MATERIAL LIST

N O	I T E M	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	C O R E	JA3 DR 6.5X7.5mm	JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	
2	W I R E	2UEW 0.65φ	DONG YANG ELECTRONICS CO., LTD. CHUNHUI ELECTRICAL APPLANCES CO.,LTD.	E102761S E198440
3	EPOXY RESIN	930A.B	SAM SIN CHEMICAL CO.,LTD.	
4	LEAD WIRE	TPCS 0.6φ COPPER-WIRE	KISTRON CO.,LTD. YEHUA CO.,LTD.	
5	EPOXY	EPI CHEM- 2001HS	SAMSIN CHEMICAL CO.,LTD.	
-	SOLDER BAR	HSE-09 SN 100	HEESUNG MATERIAL LTD. JIAMENG CO.,LTD.	
-	FLUX	F181 SF-A-2	ZHUHAI FRIEND INDUSTRIAL CO.,LTD. SOLUX CO.,LTD.	
-	INK	26BK	DOMINO KOREA CO.,LTD.	

9. TABLE OF STANDARD CHARACTERISTICS OF MATERIALS

PROPEY UNIT MATERIAL	μiac ±25%	Bms GAUSS	WORKING Frequency(MH Z)	Tc ℃	ρ Ω-cm	d g/cm ³	TANσ/μi 10 ⁻⁶ (MHZ)	αμr 10 ⁻⁶
SGB	300	3300	0.1~2.0	150	10 ⁷	4.7 ~ 4.9	80(2) 15(0.1)	25

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CUSTOMER :

SPECIFICATION		SHEET NO.	7 OF 8
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PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1uH(1R0)	DESCRIPTION	DR 6.5 X 7.5mm

10. REMARK

DONG YANG [UL CARD]

DONG YANG ELECTRONICS IND CO LTD 660-1 BANWOL-RI TAIAN-EWB Hwasung-gun, Kyunggi-do Korea			E102761 (S)	
Mtl	Cost typ		ANSI	
Dsg	BC	OC	Type	TI
AI-EIW	Polyesterimide	Polyamideimide	MW35	200
EIW	Polyesterimide		MW30	180
NY-EIW	Polyester- amide-imide	Polyamide	MW96	180
NY-PEW	Polyester	Polyamide	MW24	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW23	130
UEW	Polyurethane	-	MW75	130

Marking: Company name or "E102761" and material designation or marked designation on package or reel, and recognized Component Mark.

CHUN HUI [UL CARD]

OBMW2 (Systems, Electrical Insulation) Magnet Wire - Component		July 19, 2002			
GUANGZHOU CHUNHUI ELECTRICAL APPLIANCES CO LTD BLK 7, 8TH FL, ROOM H JIANADA GARDEN ZHONGSHAN DA DAO, GUANGZHOU GUANGDONG CHINA			E198420		
Mtl	Mark	Coat Type	ANSI	Temp	
Dsg	Dsg	BC	Type	Class	
XUEW-UL0	(1)	Polyurethane	MW75	130	

(1)-Marked designations are the same as the material designations.
 @-X may be replaced by a 0, 1 or 2.
 Marking: Company name, material designation or marked designation on package or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
 For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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CUSTOMER :

SPECIFICATION		SHEET NO.	8 OF 8
		DATA	2013.03.07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2)1.8uH(1R8K)	DESCRIPTION	DR 6.5 X 7.5mm

11. INSPECTION DATA

NO	INDUCTANCE	LC RESISTANCE	내전압	절연저항
SPEC	1uH ± 20%	0.02mΩ MAX	AC 1KV 1분 MIN	DC 500V 100MΩ MIN
1	1.24	0.012	OK	OK
2	1.25	0.011	OK	OK
3	1.19	0.009	OK	OK
4	1.29	0.011	OK	OK
5	1.22	0.011	OK	OK
6	1.22	0.011	OK	OK
7	1.23	0.011	OK	OK
8	1.30	0.011	OK	OK
9	1.25	0.011	OK	OK
10	1.22	0.01	OK	OK
\bar{X}	1.241	0.0106		
MIN	1.19	0.009		
MAX	1.30	0.012		

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