

# SPECIFICATION

## APPLICATION FOR APPROVAL OF

- ITEM : RADIAL INDUCTOR ■
- DESCRIPTION : DR 8 x 11mm ■
- CODE NO : DR4A)2.2mH(BULK) ■
- MODEL NO : ■

This space is used for customer's approval

■ DATE : 2011.03.02. ■

DRAWN BY E . Y . LEE	DATA 2011. 03. 02.
CHECKED BY	DATA
APPROVED BY J . G . KIM	DATA 2011. 03. 02.

CUSTOMER : \_\_\_\_\_

<b>SPECIFICATION</b>		SHEET NO.	1 OF 8
		DATA	2011. 03. 02.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A-2.2mH(222 or 222K)	DESCRIPTION	DR 8 x 11mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 2.2mH **RADIAL INDUCTOR(or PEAKING 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 wiped 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) Solderability

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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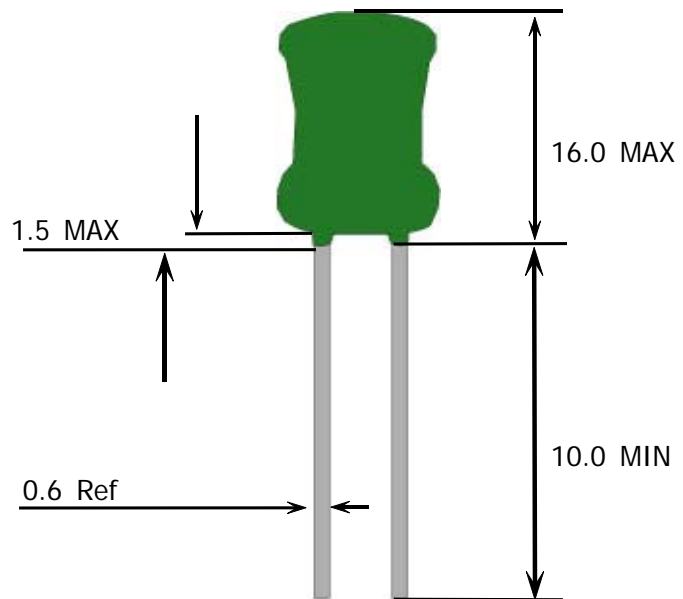
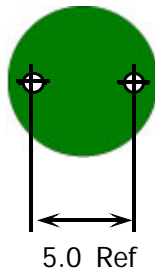
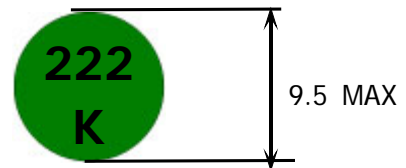
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<b>SPECIFICATION</b>		SHEET NO.	2 OF 8
		DATA	2011. 03. 02.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A-2.2mH(222 or 222K)	DESCRIPTION	DR 8 X 11mm

4. APPEARANCE & DIMENSION (UNIT:m/m)  
 <Bulk type>

MARKING : 222 or 222K

EPOXY COLOR
GREEN
BROWN
RED



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<b>SPECIFICATION</b>		SHEET NO.	3 OF 8
		DATA	2011. 03. 02.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
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5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.2Φ	257.5_Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

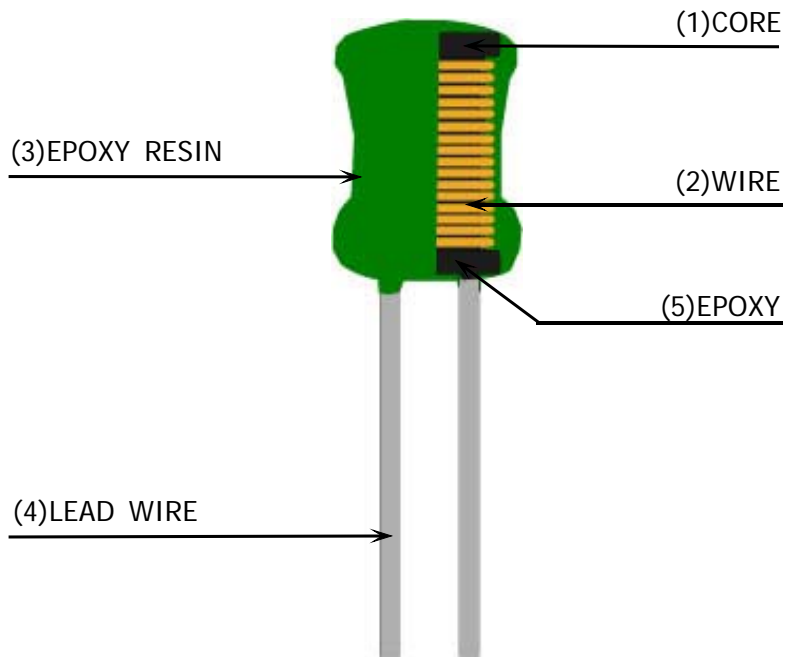
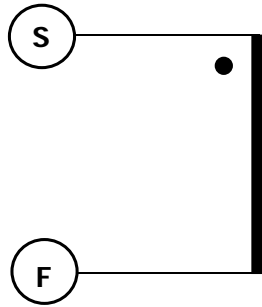
NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	<u>2.2</u> [mH] ± 10%	HIOKI3522 LCR METER at 1kHz 1V
2	DC RESISTANCE	START & FINISH	<u>3.6</u> [Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC <u>1</u> [KV] , FREQUANCY <u>60</u> [Hz] , <u>1</u> MINUTES, CUT OFF CURENT <u>2</u> [mA]	NO BREAKDOWN HPT-5010
4	INSULATION RESISTANCE	COIL & CORE	DC <u>500</u> [V] , <u>100</u> [MΩ] MIN	DM-500AD

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		DATA	2011. 03. 02.
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7. SCHEMATIC DIAGRAM



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<b>SPECIFICATION</b>		SHEET NO.	5 OF 8
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8. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	CORE	JA3 DR 8 X 11mm	JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	
2	WIRE	2UEW 0.2Φ	DONG YANG ELECTRONICS CO., LTD. CHUNHUI ELECTRICAL APPLANCES CO.,LTD.	E102761S E198440
3	EPOXY	930A.B	SAM SIN CHEMICAL CO.,LTD.	
4	LEAD WIRE	TPCS 0.6Φ COPPER-WIRE	SAMATRON CO.,LTD MYOUNGTONG ELECTRONICS CO.,LTD.	
5	EPOXY	FK661	QIFU ELECTRONICS MATERIALS FACTORY	
-	SOLDER BAR	HSE-09 SN 100	HEESUNG MATERIAL LTD. JIAMENG CO.,LTD.	
-	FLUX	F181	ZHUHAI FRIEND INDUSTRIAL CO.,LTD.	
-	INK	270BK	DOMINO KOREA CO.,LTD.	

9. TABLE OF STANDARD CHARACTERISTICS OF MATERIALS

PROPERTY UNIT MATERIAL	μiac ±25%	Bms GAUSS	Br GAUSS	WORKING Frequency(MHZ)	Tc ℃
JA3	300	2400	1300	0.1~2.0	150

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10. REMARK-1 / DONG YANG [UL CARD]

Magnet Wire - Component

See General Information for Magnet Wire - Component

**DONG YANG ELECTRONICS IND CO LTD**

E102761

5-20 BANGYE-RI

MUNMAK-EUB

WONJU-SHI, KANGWON-DO 220-800 REPUBLIC OF KOREA

Mtl Dsg	Coat Typ		ANSI Type	TI
	BC	OC		
AI-EIW	Polyester-	Polyamide-	MW35	200
	imide	imide		
DSB-EIA	Ester-imide	Polyamide	MW76	180
DSB-EIA(S)	Solderable	Polyamide	MW78	180
	ester-imide			
EIW	Polyester-		MW30	180
	imide			
NY-EIW	Polyester-	Polyamide	MW76	180
	amide-imide			
NY-PEW	Polyester	Polyamide	MW24	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW80,	155,
			MW28#	130
UEW(F)	Polyurethane	—	MW79,	155,

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10. REMARK-2 / CHUN HUI [UL CARD]

Magnet Wire - Component

See General Information for Magnet Wire - Component

**GUANGZHOU CHUNHUI ELECTRICAL APPLIANCES CO LTD** E198440  
 BLK 7, 8TH FL, ROOM H  
 JIANADA GARDEN  
 ZHONGSHAN DA DAO  
 GUANGZHOU, GUANGDONG 510665 CHINA

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class
		BC	OC		
XUEW-UL@	(1)	Polyurethane	?/TD>	MW75	130

(1)-Marked designations are the same as the material designations.

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<b>SPECIFICATION</b>		SHEET NO.	8 OF 8
		DATA	2011. 03. 02.
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PART NO.	DR4A-2.2mH(222 or 222K)	DESCRIPTION	DR 8 X 11mm

11. INSPECTION DATA

NO	INDUCTANCE	DC RESISTANCE	내전압	절연저항
SPEC	2.2mH±10%	3.6Ω MAX	AC 1KV 1분 MIN	DC 500V 100MΩMIN
1	2.18	2.2	OK	OK
2	2.17	2.2	OK	OK
3	2.134	2.3	OK	OK
4	2.154	2.2	OK	OK
5	2.168	2.3	OK	OK
6	2.15	2.2	OK	OK
7	2.157	2.3	OK	OK
8	2.169	2.2	OK	OK
9	2.162	2.3	OK	OK
10	2.162	2.2	OK	OK
$\bar{X}$	2.1606	2.24		
MIN	2.134	2.2		
MAX	2.18	2.3		

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