

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

APPLICATION FOR APPROVAL OF

ITEM	: RADIAL INDUCTOR
DESCRIPTION	: DR 10 x 11mm
CODE NO	: DR4B) 2mH(202K),BULK
MODEL NO	:

This space is used for customer's approval

DATE : 2012.07.25.

DRAWN BY M . Y . JEON	DATA 2012.07.25.
CHECKED BY	DATA
APPROVED BY J . G . KIM	DATA 2012.07.25.

CUSTOMER :

SPECIFICATION		SHEET NO.	1 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 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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CUSTOMER :

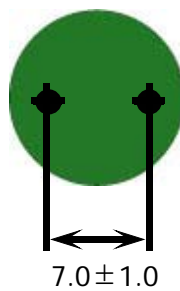
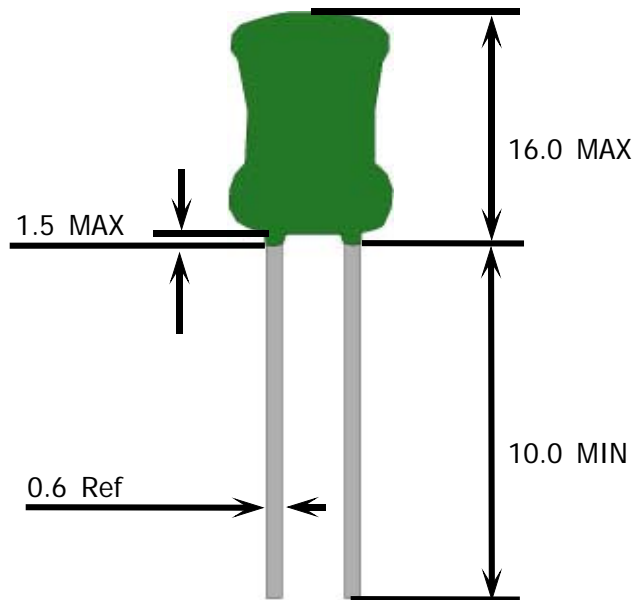
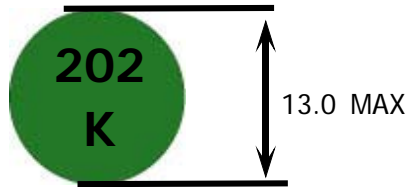
SPECIFICATION		SHEET NO.	2 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

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

MARKING : 202 or 202K

* BULK TYPE

EPOXY COLOR
GREEN
BROWN
RED



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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CUSTOMER :

SPECIFICATION		SHEET NO.	3 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR		MODEL NAME
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.25Φ	<u>217.5</u> Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

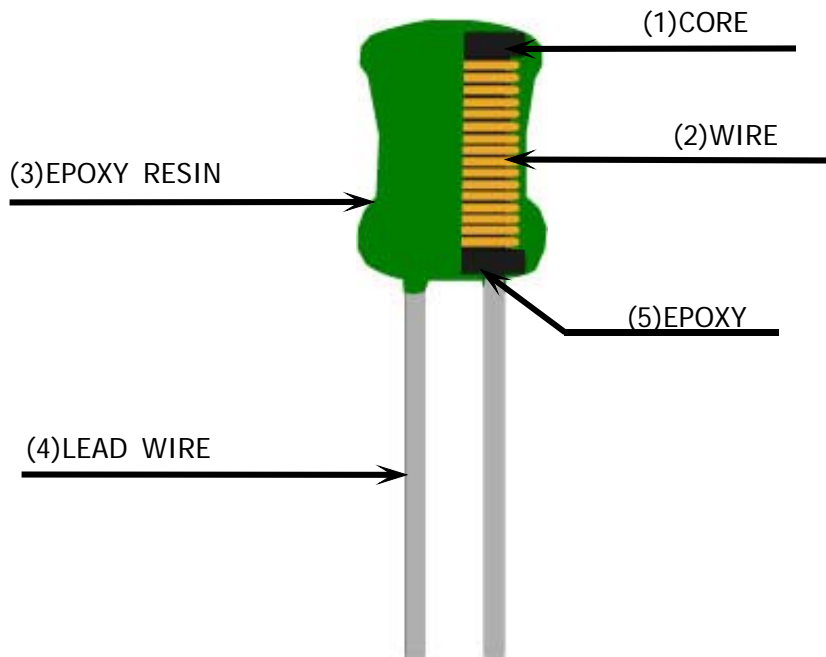
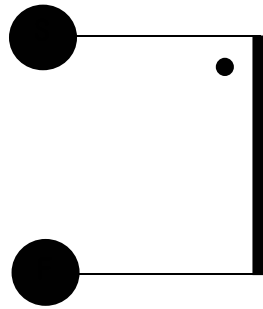
NO	IT E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	<u>2.0</u> [mH] ± 10 [%]	HIOKI3522 LCR METER at 1kHz 1V
2	DC RESISTANCE	START & FINISH	<u>2.5</u> [Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC <u>1</u> [KV] , FREQUANCY <u>60</u> [Hz] , <u>1</u> MINUTES, 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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CUSTOMER :

SPECIFICATION		SHEET NO.	4 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

7. SCHEMATIC DIAGRAM



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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4						

CUSTOMER :

SPECIFICATION		SHEET NO.	5 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

8. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	CORE	JA3 DR 10 X 11mm	JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	EQV
2	WIRE	2UEW 0.25Φ	DONG YANG ELECTRONICS CO., LTD. CHUNHUI ELECTRICAL APPLANCES CO.,LTD.	E102761S E198440 EQV
3	EPOXY RESIN	EPI-CHEM 930HF	SAM SIN CHEMICAL CO.,LTD.	E232031 EQV
4	LEAD WIRE	TPC 0.6Φ COPPER-WIRE	SAMATRON CO.,LTD YEHUA CO.,LTD.	EQV
5	EPOXY	EPI CHEM-2001HS FK661	SAMSIN CHEMICAL CO.,LTD. QIFU ELECTRONIC MATERIALS FACTORY	EQV
-	SOLDER BAR	HSE-09 SN 100	HEESUNG MATERIAL LTD. JIAMENG CO.,LTD.	EQV
-	FLUX	F181	ZHUHAI FRIEND INDUSTRIAL CO.,LTD.	EQV
-	INK	226BK	DOMINO KOREA CO.,LTD.	EQV

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

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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4						

CUSTOMER :

SPECIFICATION		SHEET NO.	6 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

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

OBMW2.E102761 - Magnet Wire - Component

페이지 1 / 2



**OBMW2.E102761
Magnet Wire - Component**

Page Bottom

Magnet Wire - Component

See General Information for Magnet Wire - Component

DONG YANG ELECTRONICS IND CO LTD
5-20 BANGYE-RI
MUNMAK-EUB
WONJU-SHI, KANGWON-DO 220-800 REPUBLIC OF KOREA

E102761

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,
UEW(B)	Polyurethane	—	MW75#	130
UAL	Polyurethane	—	@	155
PEW	Polyester	—	@	180
			MW5#	155

Note: UAL is the alternate aluminum grade designation of magnet wire designated UEW. @- Non-ANSI type.

#- The wire may perform better than the rating reflects and hence may not be suitable for insulation system testing.

Marking: Company name or "E102761" and material designation or marked designation on package or reel .
Last Updated on 2007-01-08

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CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	7 OF 9
		DATA	2012.07.25.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-1mH-B	DESCRIPTION	DR 10 X 11mm

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

OBMW2.E198440 - Magnet Wire - Component

페이지 1 / 2



ONLINE CERTIFICATIONS DIRECTORY

**OBMW2.E198440
Magnet Wire - Component**

[Page Bottom](#)

Magnet Wire - Component

[See General Information for Magnet Wire - Component](#)

GUANGZHOU CHUNYI ELECTRIC ENTERPRISE LTD
 RM 348 FULI YINGFENG MANSION
 NO 2 HUAQIANG RD ZHUJIANG XINCHENG
 TIANHE DISTRICT
 GUANGZHOU, GUANGDONG 528222 CHINA

E198440

Mtl Dsg	Coating Type		ANSI Type	TI
	BC	TC		
JEC-XPEW(QZ)	Polyester	—	—	155#
JEC-XUEW(QA)	Polyurethane	—	—	130#
JEC-X(EIW-AL/200) Q(ZY/XY)/200	Polyester-imide	Polyamide-imide	MW35C, MW73C	200
JEC-XUEW/155(QA/155)	Polyurethane	—	MW79C	155
UEW or QA-	Polyurethane	—	MW82-C	180
	Polyurethane	—	MW79-C@	155
	Polyurethane	—	MW75-C@	130
UEW(AL) or QA(L)-	Polyurethane	—	—	180
	Polyurethane	—	@	155
	Polyurethane	—	@	130
UEW/NY or QA/NY-	Polyurethane	Polyamide	MW83-C	180
	Polyurethane	Polyamide	MW80-C@	155
	Polyurethane	Polyamide	MW28-C@	130
	Polyurethane	Polyamide	—	180
	Polyurethane	Polyamide	MW80-A@	155
UEW/NY(AL) or QA/NY(L)-	Polyurethane	Polyamide	MW28-A@	130
	Polyester-imide	—	MW74-C	200
EIW or QZ-	Polyester-imide	—	MW30-C@	180
PEW or QZ-	Polyester-imide	—	MW5-C	155
QZ-*	Polyester-imide	—	@	130
EIW(AL) or QZ(L)-	Polyester-imide	—	MW74-A	200
	Polyester-imide	—	@	180
PEW (AL) or QZ(L)-	Polyester-imide	—	@	155
	Polyester-imide	—	@	130
PEW/NY or QZ/NY-	Polyester	Polyamide	MW76-C	180
	Polyester	Polyamide	MW24-C@	155
	Polyester	Polyamide	@	130
	Polyester	Polyamide	MW76-A	180
PEW/NY(AL) or QZ/NY(L)-	Polyester	Polyamide	MW24-A@	155

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CUSTOMER :

SPECIFICATION		SHEET NO.	9 OF 9
		DATA	2012.07.25.
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PART NO.	DR4B-2mH-B	DESCRIPTION	DR 10 X 11mm

11. INSPECTION DATA

NO	INDUCTANCE	DC RESISTANCE	내전압	절연저항
SPEC	2mH±10%	1.5ΩMAX	AC 1KV 1분 MIN	DC 500V 100MΩMIN
1	2.06	1.50	OK	OK
2	2.03	1.50	OK	OK
3	2.09	1.50	OK	OK
4	2.09	1.50	OK	OK
5	2.06	1.50	OK	OK
6	2.07	1.50	OK	OK
7	2.07	1.50	OK	OK
8	2.08	1.50	OK	OK
9	2.08	1.49	OK	OK
10	2.03	1.50	OK	OK
X̄	2.066	1.499		
MIN	2.03	1.49		
MAX	2.09	1.50		

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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