

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

APPLICATION FOR APPROVAL OF

- ITEM : RADIAL INDUCTOR ■
- DESCRIPTION : DR 8 X 8mm ■
- CODE NO : DR4) 10uH ■
- MODEL NO : ■

**This space is used for customer's approval**

■ DATE : 2008. 01. 30. ■

DRAWN BY Y . H . JEON	DATA 2008. 01. 30.
CHECKED BY	DATA
APPROVED BY J . G . KIM	DATA 2008. 01. 30.

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	1 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 10uH **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

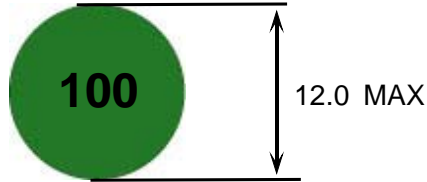
NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

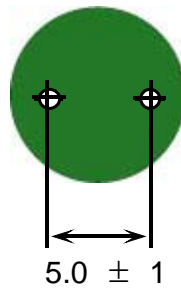
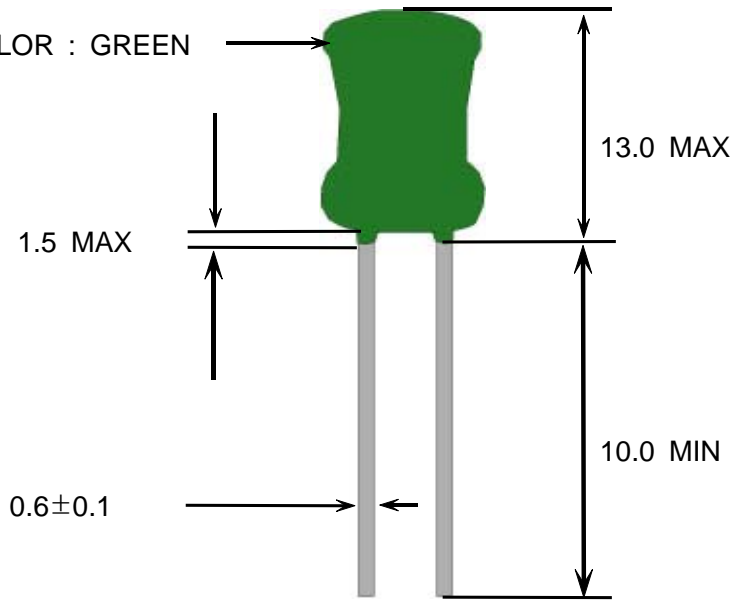
<h1>SPECIFICATION</h1>		SHEET NO.	2 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

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

MARKING : 100K or 100



EPOXY COLOR : GREEN



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	3 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.6Φ	<u>16.5</u> Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

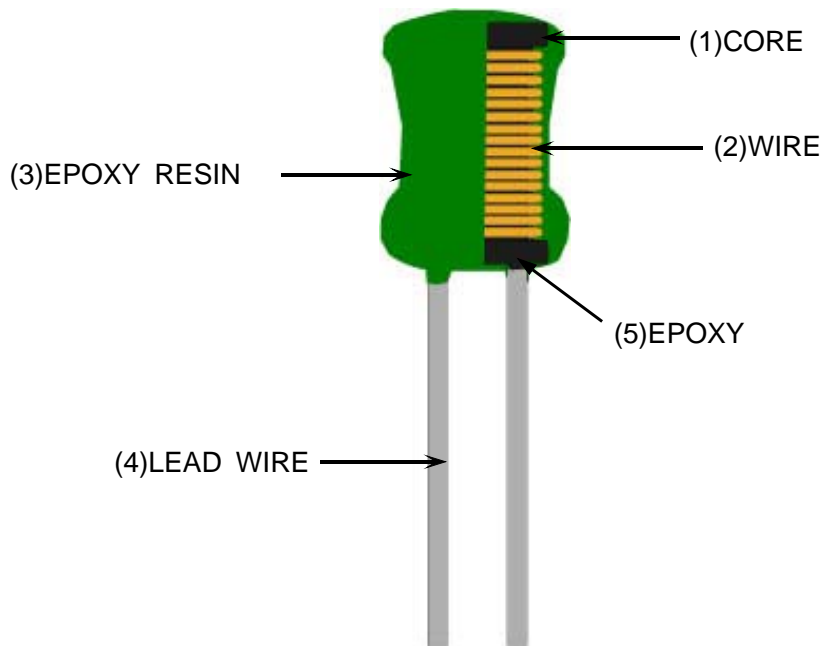
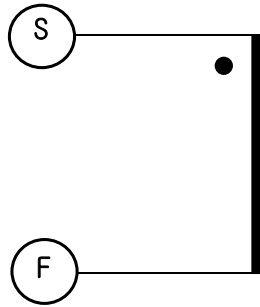
NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	10[uH] ± 10 [%]	HIOKI3522 LCR METER at 1kHz 1V
2	DC RESISTANCE	START & FINISH	<u>0.03</u> [Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC <u>1</u> [KV] , FREQUANCY <u>60</u> [Hz] , <u>1</u> MINUTES, 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

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	4 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

7. SCHEMATIC DIAGRAM



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	5 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

8. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	CORE	SGB,DGB,JA3 DR 8 X 8mm	JAW SHIANQ CORPORATION CO.,LTD. ZHAOYUAN FLYING ELECTRONIC CO.,LTD. JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	
2	WIRE	2UEW 0.6Φ 2UEW 0.6Φ	DONG YANG ELECTRONICS CO., LTD. CHUNHUI ELECTRICAL APPLANCES CO.,LTD.	E102761S E198440
3	EPOXY RESIN	DP-402NH-P 930A.B	DAE JOO FINE CHEMICAL CO., LTD. SAM SIN CHEMICAL CO.,LTD.	
4	LEAD WIRE	TPC 0.6Φ TPCS 0.6Φ COPPER-WIRE	SAMATRON CO.,LTD IL-KWANG ELECTRONIC MATERIALS CO.,LTD. YEHUA ELECTRON MATERIAL LIMITED CO.,LTD.	
5	EPOXY	6020H	GUANGZHOU WELLS 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	270BK	DOMINO KOREA CO.,LTD.	

9. TABLE OF STANDARD CHARACTERISTICS OF MATERIALS

PROPEY UNIT MATERIAL	μiac ±25%	Bms GAUSS	WORKING Frequency(MHZ)	Tc ℃	ρ Ω-cm	d g/cm <sup>3</sup>	TAN σ/μi 10 <sup>-6</sup> (MHZ)	α μ r 10 <sup>-6</sup>
SGB	300	3300	0.1~2.0	150	10 <sup>7</sup>	4.7 ~ 4.9	80(2) 15(0.1)	25

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	6 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

10. REMARK

DONG YANG [UL CARD]

DONG YANG ELECTRONICS IND CO LTD				E102761 (S)	
660-1 BANWOL-RI TAIAN-EWB HWASUNG-GUN, KYUNGGI-DO KOREA					
Mtl Dsg	BC	Cost typ	OC	ANSI 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-U EW	Polyurethane		Polyamide	MW23	130
U EW	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		July 19, 2002			
(Systems, Electrical Insulation) Magnet Wire - Component					
GUANGZHOU CHUNHUI ELECTRICAL APPLIANCES CO LTD					E198420
BLK 7, 8TH FL, ROOM H JIANADA GARDEN ZHONGSHAN DA DAO, GUANGZHOU GUANGDONG CHINA					
MU Dsg	Mark Dsg	Coat Type	BC	OC	ANSI Type
XUEW-UL0	(1)	Polyurethane		-	MW75
Temp Class					
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.

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	7 OF 7
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 10uH	DESCRIPTION	DR 8 X 8mm

11. INSPECTION DATA

NO	INDUCTANCE	DC RESISTANCE	내전압	절연저항
SPEC	10uH ± 10%	0.03Ω MAX	AC 1KV 1분 MIN	DC 500V 100MΩ MIN
1	10.2	0.013	OK	OK
2	9.97	0.013	OK	OK
3	9.82	0.012	OK	OK
4	9.76	0.012	OK	OK
5	9.94	0.012	OK	OK
6	9.6	0.012	OK	OK
7	10.5	0.011	OK	OK
8	9.83	0.011	OK	OK
9	9.9	0.011	OK	OK
10	9.79	0.011	OK	OK
$\bar{X}$	9.931	0.0118		
MIN	9.6	0.011		
MAX	10.5	0.013		

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						