

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) 10uH(100K),BULK ■
- MODEL NO : ■

This space is used for customer's approval

■ DATE : 2008. 08. 27. ■

DRAWN BY M . Y . JEON	DATA 2008. 08. 27.
CHECKED BY	DATA
APPROVED BY J . G . KIM	DATA 2008. 08. 27.

CUSTOMER :

SPECIFICATION		SHEET NO.	1 OF 9			
		DATA	2008. 08. 27.			
PART NAME	RADIAL INDUCTOR		MODEL NAME			
PART NO.	DR4B-10uH-B		DESCRIPTION	DR 10 X 11mm		
<p>1. GENERAL SPECIFICATION</p> <p>1) SCOPE</p> <p>This specification applies to part number <u>10uH</u> RADIAL INDUCTOR(or PEAKING COIL) for use in electronic appliances which is supplied for</p> <p>2. MECHANICAL CHARACTERISTIC</p> <p>PEAKING COIL shall conform in size, dimension, and other mechanical properties, to the part drawing attached here to.</p> <p>1) Marking</p> <p>PEAKING COIL shall be permanently and legibly marked with the part number on the specification position.</p> <p>2) Terminal strength</p> <p>Terminal shall withstand for <u>30</u> seconds without breakdown on losing when a static load of <u>2</u> Kg is applied in the drawing direction to the terminal at the point where the external load.</p> <p>3. ENVIRONMENTAL & LIFE CHARACTERISTIC</p> <p>1) Temperature rise</p> <p>Temperature rise of the each winding and core shall be less than ambient <u>+ 65°C</u> , when the PEAKING COIL continuously operated at full load(test load) until constant temperature is attained.</p> <p>2) Heat-resistance</p> <p>Immediately after PEAKING COIL being placed in room for <u>96</u> Hours maintained AT <u>105°C ± 2°C</u> ambient temperature, the PEAKING COIL shall conform with the above part paragraph (4) and also insulation resistance shall be more than <u>100</u> MΩ.</p> <p>3) Moisture resistance</p> <p>Immediately after PEAKING COIL being placed in room for <u>120</u> Hours in such humidity chamber this is maintained at <u>90 - 95%</u> relative humidity and <u>55°C ± 2°C</u> temperature and wipped a drop of water, PEAKING COIL shall conform with the above paragraph(4) and also insulation shall be the <u>10</u> MΩ.</p> <p>4) Safety consideration</p> <p>PEAKING COIL shall meet all the requirements subject to <u>IEC-950</u> standards for safety of information technology equipment including electrical business equipment.</p> <p>5) Solderability</p> <p>Dip pads in RMA flux, 96.5/0.5/3 solder (Sn/Cu/Ag) at 260°C for 5±2 seconds</p>						
NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

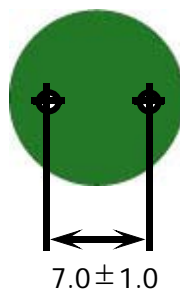
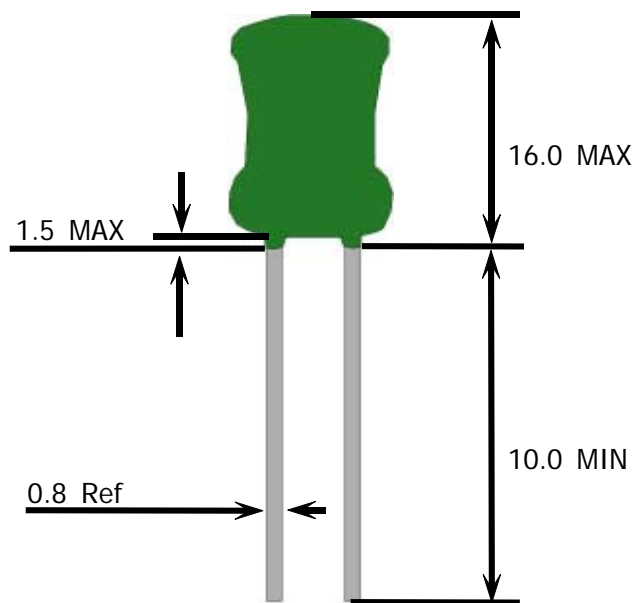
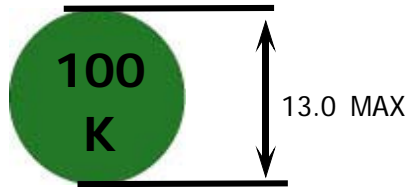
SPECIFICATION		SHEET NO.	2 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

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

MARKING : 100 or 100K

* BULK TYPE

EPOXY COLOR
GREEN
BROWN
RED



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	3 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.50Φ	14.5 Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

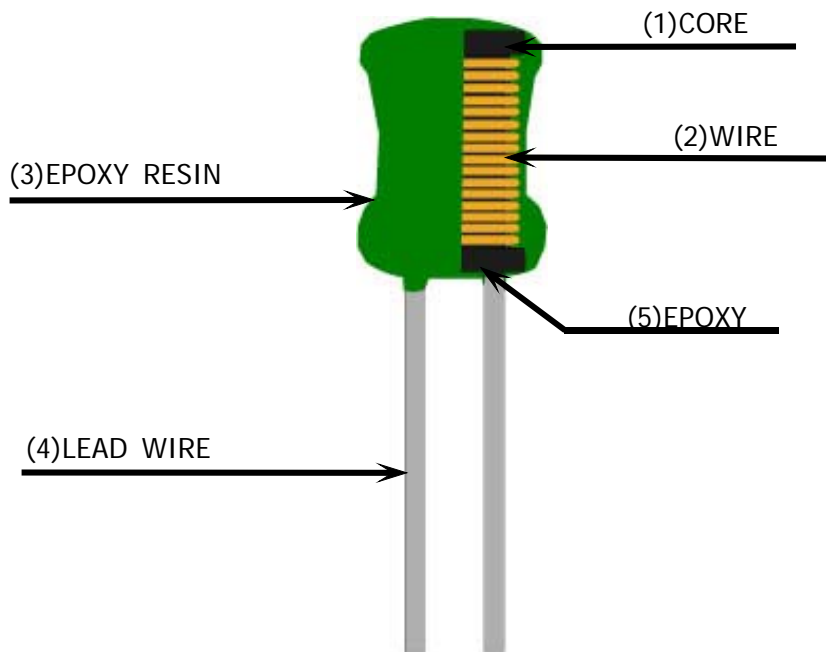
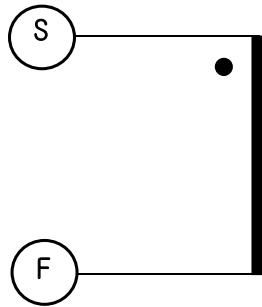
NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	<u>10</u> [uH] ± 15 [%]	HIOKI3522 LCR METER at 1kHz 1V
2	DC RESISTANCE	START & FINISH	<u>0.1</u> [Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC <u>1</u> [KV] , FREQUANCY <u>60</u> [Hz] , <u>1</u> MINUTES, 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 :

SPECIFICATION		SHEET NO.	4 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

7. SCHEMATIC DIAGRAM



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	5 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

8. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	CORE	SGB / DGB / JA3 DR 10 X 11mm	JAW SHIANQ CORPORATION CO.,LTD. ZHAOYUAN FLYING ELECTRONIC CO.,LTD. JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	
2	WIRE	2UEW 0.5Φ	DONG YANG ELECTRONICS CO., LTD. CHUNHUI ELECTRICAL APPLANCES CO.,LTD. GUANDONG RONSEN SUPER MICRO-WIRE CO.,LTD	E102761S E198440 E164502
3	EPOXY RESIN	DP-402NH-P 930A.B	DAE JOO FINE CHEMICAL CO., LTD. SAM SIN CHEMICAL CO.,LTD.	
4	LEAD WIRE	TPC 0.8Φ TPCS 0.8Φ 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 SNCU 0.7	HEESUNG MATERIAL LTD. JIAMENG CO.,LTD. JINTAE CO.,LTD.	
-	FLUX	F181 PF-120L	ZHUHAI FRIEND INDUSTRIAL CO.,LTD. SOLUX 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

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	6 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

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,

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	7 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

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.

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	8 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

10. REMARK-3 / RONSEN [UL CARD]

Magnet Wire - Component					
See General Information for Magnet Wire - Component					
GUANGDONG RONSEN SUPER MICRO-WIRE CO LTD SANZAO TECHNOLOGICAL INDUSTRY PARK AIRPORT WEST RD ZHUHAI, GUANGDONG 519000 CHINA				E164502	
Mtl Dsg	Mark Dsg	Coat Typ		ANSI Type	Temp Class
		BC	OC		
EIW	PEW	Modified Polyester	—	MW74-C	200
				MW30-C	180#
UEW/130	PUB	Polyurethane	—	MW75-C	130#
UEW/155	PUF	Polyurethane	—	MW79-C	155
UEW-Y	PUY	Polyurethane	Polyamide	MW80-C	155
				MW28-C	130#
S-EIW	PSE	Polyester-imide	—	MW77-C	180
UEW/180	PUH	Polyurethane	—	MW82-C	180
X UEW/180 (QA/180)		Polyurethane	—	MW82C	180
X UEW/155 (QA/155)		Polyurethane	—	MW79C#	155
X UEW/130 (QA/130)		Polyurethane	—	MW75C#	130
X UEW/200 (QA/200)		Polyurethane	—	@	200
X UEW/180-U (QA/180-U)		Polyurethane	—	MW82C#	180

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						

CUSTOMER :

SPECIFICATION		SHEET NO.	9 OF 9
		DATA	2008. 08. 27.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4B-10uH-B	DESCRIPTION	DR 10 X 11mm

11. INSPECTION DATA

NO	INDUCTANCE	DC RESISTANCE	내전압	절연저항
SPEC	10uH±15%	0.1Ω MAX	AC 1KV 1분 MIN	DC 500V 100MΩMIN
1	9.83	0.018	OK	OK
2	9.77	0.018	OK	OK
3	9.65	0.017	OK	OK
4	9.75	0.017	OK	OK
5	9.7	0.017	OK	OK
6	9.67	0.016	OK	OK
7	9.64	0.016	OK	OK
8	9.82	0.016	OK	OK
9	9.78	0.017	OK	OK
10	9.65	0.016	OK	OK
\bar{X}	9.726	0.0168		
MIN	9.64	0.016		
MAX	9.83	0.018		

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
3						
4						