

# 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) 47uH ■  
■ MODEL NO : ■

This space is used for customer's approval

■ DATE : 2008. 01. 30. ■

DRAWN BY DATA  
Y . H . JEON 2008. 01. 30.

CHECKED BY DATA

APPROVED BY DATA  
J . G . KIM 2008. 01. 30.

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	1 OF 6
		DATA	2008. 01. 30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4) 47uH	DESCRIPTION	DR 8 X 8mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 47uH **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 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) 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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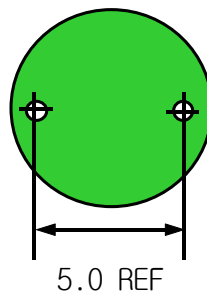
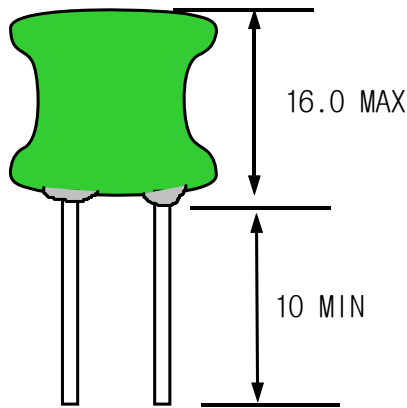
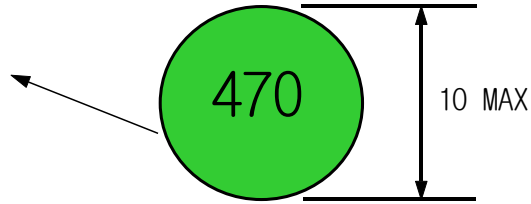
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<b>SPECIFICATIONS</b>		SHEET NO.	2 OF 6
		DATE	2008. 1.30.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4-47uH	TYPE NO	DR 8 X 8

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

Marking

470 or 470K



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<b>SPECIFICATIONS</b>		SHEET NO.	3 OF 6
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PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4-47uH	TYPE NO	DR 8 X 8

2. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	UEW 0.40Ø	_34.0_ t REF	SOLENOID WINDING [C. C. W]

3. ELECTRICAL CHARACTERISTIC

NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	_47_ [uH] ± 10 [%]	LCR-METER HP-4284A at 1KHz 1Vrms
2	LAYER SHORT	START & FINISH	AC _1_ [KV] , FREQUENCY _60_ [Hz]	
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC _1_ [KV] , FREQUANCY _60_ [Hz] , _1_ MINUTES, CUT OFF CURENT _5_ [mA]	NO BREAKDOWN
4	INSULATION RESISTANCE	COIL & CORE	DC _500_ [V] , _100_ [MΩ] MIN	



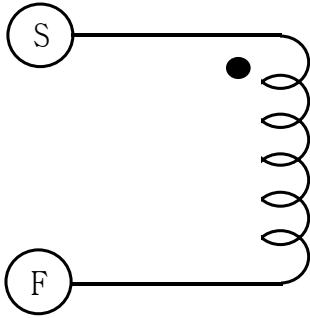
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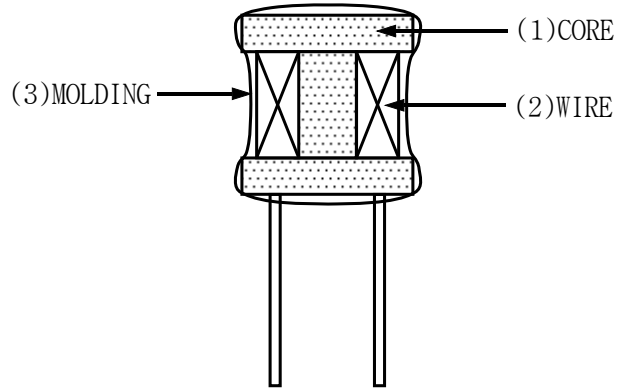
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PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4-47uH	TYPE NO	DR 8 X 8

4. SCHEMATIC DIAGRAM



5. INTERNAL CONSTRUCTION



6. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	SAFETY
1	CORE	L-81, YL-81 (C:3.0) DR 8 X 8mm	SAMWHA ELECTRONICS CO., LTD. CORE TECH CO.,LTD.	
2	WIRE	UEW 0.40Ø	DONG YANG ELECTRONICS CO., LTD. YOUNG WHA SA CO., LTD. DAE SAN ELECTRONICS CO.,LTD DONG SUH ELECTRONICS CO.,LTD	E102761S E141925S E174361 E210918
3	EPOXY RESIN	MOODING TYPE	DAWOO CHEMICAL CO., LTD.	



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PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4-47uH	TYPE NO	DR 8 X 8

OBMW2		Jenu25.2002			
(Systems,Electrical Insulation) Magnet Wire _ component					
DONG SUH ELECTRONICS CO LTD				E210918	
55-1 BUNUS 3_RI KWANGTAN_MYUN PAJU,KYONGGI_DO					
413_850 KOREA					
Mti	Mark	Coat type	ANSI	Temp	
Dsg	Dsg	BC	OC	Type	Class
DSUEW_100	(1)	Polyurethane		MW75C	130
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(1)-Marked designations are the same as the material designations.					
Marking:Company name,material designation or marked designation on package or reel,and Recognized Component Mark.					
See General Information Preceding These Recognitions					

<b>DONG YANG ELECTRONICS IND CO LTD</b>			<b>E102761 (S)</b>	
<b>660-1 BANWOL-RI TAIAN-EUB HWASUNG-GUN, KYUNGGI-DO KOREA</b>				
Mti Dsg	BC	Coat Typ	ANSI	TI
AI-EIW	Polyester- imide	OC	Type	200
EIW	Polyester- imide	Polyamide- imide	MW35	180
NY-EIW	Polyester- amide-imide	Polyamide	MW30	180
NY-PEW	Polyester	Polyamide	MW76	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW24	130
UEW	Polyurethane	-	MW28	130
			MW75	130
Marking: Company name or "E102761"and material designation or marked designation on package or reel, and Recognized Component Mark.				


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<b>SPECIFICATIONS</b>		SHEET NO.	6 OF 6
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PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4-47uH	TYPE NO	DR 8 X 8

<b>YOUNG WHA SA CO LTD</b>				<b>E141925 (S)</b>	
<b>256-1 DODANG-DONG JOONG-GU BUCHON, KYONGGI-DO 421-130 KOREA</b>					
Mtl		Coat Typ	ANSI		
Dsg	BC	Overcoat	Typ(+)	T1	
AEW-R	Modified Polyester	Polyamideimide	MW73-C	200	
AI-EIW	Modified Polyester	Polyamideimide	MW35-C	200	
UEW-F	Polyurethane	-	MW79-C	155	
NPW	Polyester-nylon	Nylon	MW24-C	155	
NUW	Polyurethane-nylon	Nylon	MW28-C	130	
UEW-B	Polyurethane	-	MW75-C	130	
Marking: Company name and material designation.					

<b>DAESAN ELECTRONICS CO LTD</b>		E174361			
5-DA-201-2 SHIWA INDUSTRIAL COMPLEX 664-1 SUNGGOG-DONG ANSAN-SHI KYONGGI-DO, KOREA					
<b>Mtl</b>	<b>Coat Type</b>		<b>ANSI</b>	<b>Temp</b>	
<b>Dsg</b>	<b>BC</b>	<b>OC</b>	<b>Type</b>	<b>Class</b>	
CB-AI/EI	Polyester	Polyamideimid	MW35	200	
CB-PEW	Polyester	—	MW5	155	
CB-UEW	Polyurethane	—	MW79	155	
			MW75	130#	
#-Additional consideration is needed before used in system thermal aging. Marking: Recognized company's name and magnet wire designation on pack, reel, and/or container.					

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