

CUSTOMER :

NO : 070319-01

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

## APPLICATION FOR APPROVAL OF

ITEM : RADIAL INDUCTOR

DESCRIPTION : DR 8 x 11mm

CODE NO : DR4A) 220uH (BULK & TAPING)

MODEL NO :

This space is used for customer 's approval

DATE : 2008. 04. 07.

DRAWN BY

Y . H . JEON

DATA

2008. 04. 07.

CHECKED BY

DATA

APPROVED BY

J . G . KIM

DATA

2008. 04. 07.

CUSTOMER :

<h1>SPECIFICATION</h1>		SHEET NO.	1 OF 7
		D A T E	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A-220uH	DESCRIPTION	DR 8 x 11mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 220uH **RADIAN 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

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
2						
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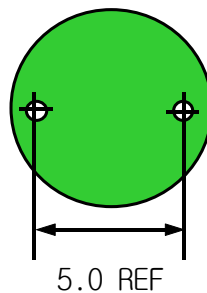
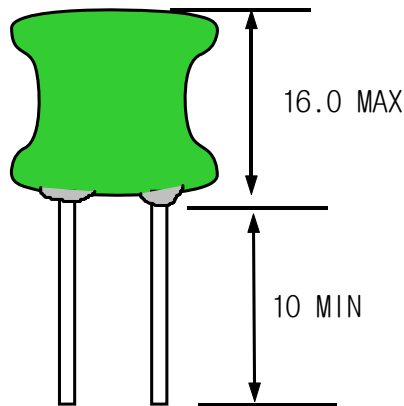
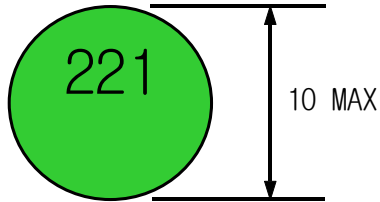
CUSTOMER :

<b>SPECIFICATIONS</b>		SHEET NO.	2 OF 7
		DATE	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A) 220uH	TYPE NO	DR 8 X 11

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

Marking

221 or 221K



 NAMSUN ELECTRONICS CO.,LTD.

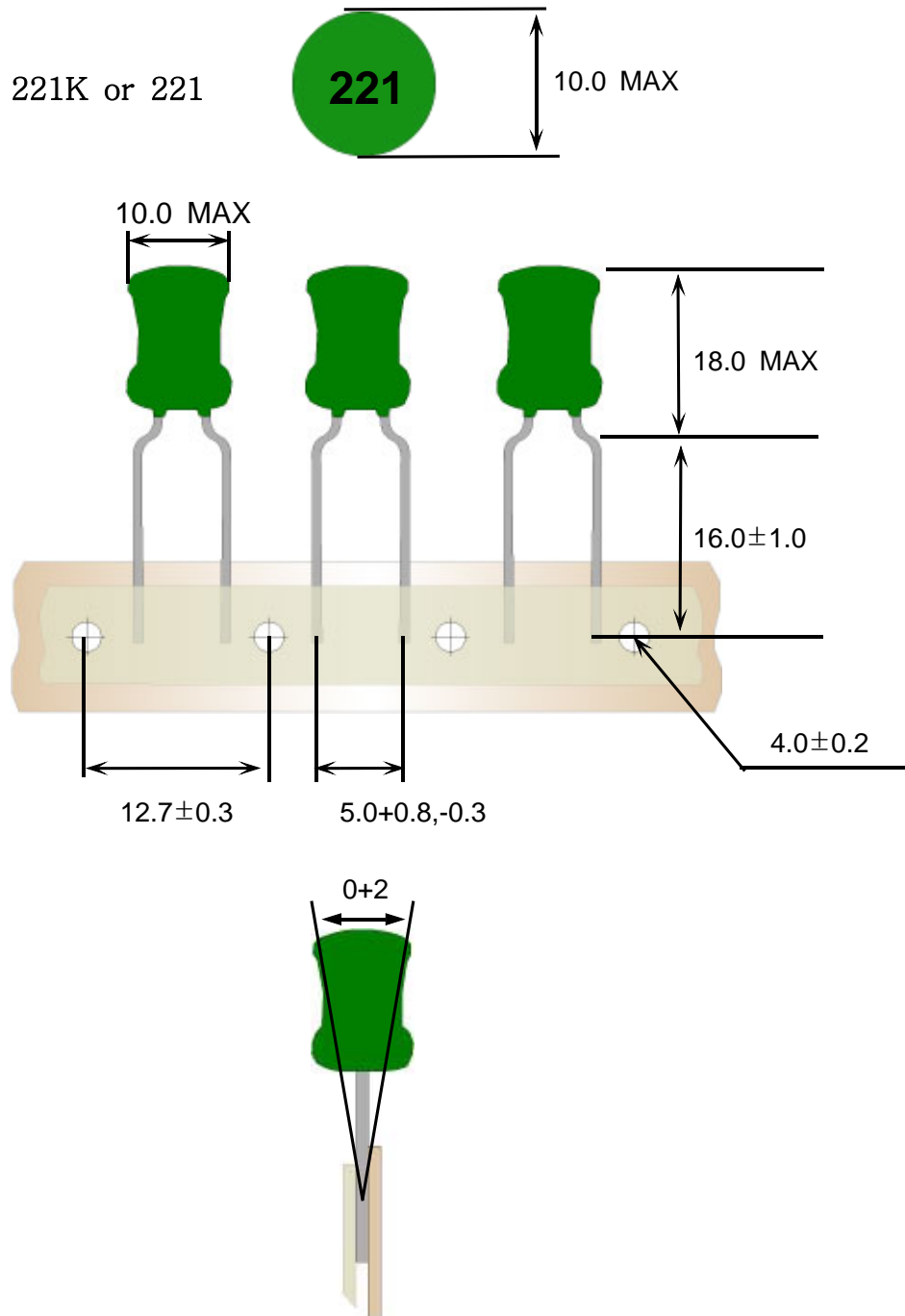
DESIGN	CHECK	APPROVAL

CUSTOMER :

<b>SPECIFICATION</b>		SHEET NO.	3 OF 7
		DATA	2008. 04. 07.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A-220uH	DESCRIPTION	DR 8.0 X 11.0mm

4-1. APPEARANCE & DIMENSION (UNIT:m/m)

MARKING : 221K or 221



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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CUSTOMER :

<h1>SPECIFICATIONS</h1>		SHEET NO.	4 OF 7
		DATE	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A) 220uH	TYPE NO	DR 8 X 11

2. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	UEW 0.35Ø	<u>82.5t REF</u>	SOLENOID WINDING [C. C. W]

3. ELECTRICAL CHARACTERISTIC

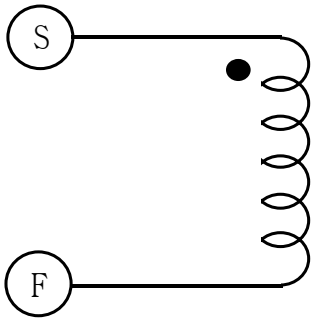
NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	<u>220</u> [uH] ± 10 [%]	LCR-METER HP-4284A at 1KHz 1Vrms
2	DC RESISTANCE	START & FINISH	_____ [Ω] MAX	WHEATSTON E BRIDGE TYPE 2755 TYPE 3220
3	LAYER SHORT	START & FINISH	AC <u>1</u> [KV] , FREQUENCY <u>60</u> [Hz]	
4	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC <u>1</u> [KV] , FREQUANCY <u>60</u> [Hz] , <u>1</u> MINUTES, CUT OFF CURENT <u>5</u> [mA]	NO BREAKDOWN
5	INSULATION RESISTANCE	COIL & CORE	DC <u>500</u> [V] , <u>100</u> [MΩ] MIN	

	DESIGN	CHECK	APPROVAL

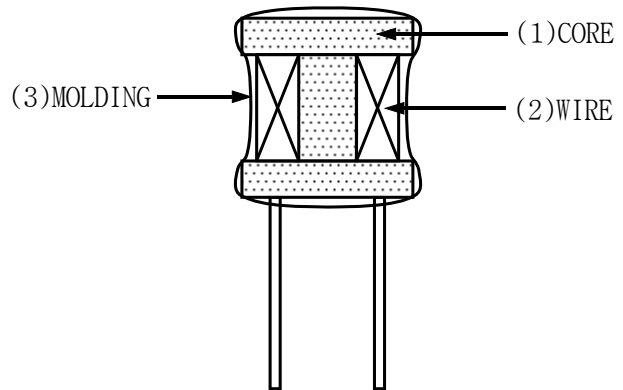
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<b>SPECIFICATIONS</b>		SHEET NO.	5 OF 7
		DATE	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A) 220uH	TYPE NO	DR 8 X 11

4. SCHEMATIC DIAGRAM



5. INTERNAL CONSTRUCTION



6. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	SAFETY
1	CORE	L-81, YL-81, K5A DR 8 x 11mm	SAMWHA ELECTRONICS CO.,. LTD. YOUNGHWHA FERRITE CO., LTD. CORE TECH CO.,LTD.	
2	WIRE	UEW 0.35Ø	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	DAE JOO FINE CHEMICAL CO., LTD. DA WOO CHEMICAL CO., LTD.	

 NAMSUN ELECTRONICS CO.,LTD.

DESIGN	CHECK	APPROVAL

CUSTOMER :

<b>SPECIFICATIONS</b>		SHEET NO.	6 OF 7
		DATE	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A) 220uH	TYPE NO	DR 8 X 11

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-U EW	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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CUSTOMER :

<b>SPECIFICATIONS</b>		SHEET NO.	7 OF 7
		DATE	2008. 4. 7.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR4A) 220uH	TYPE NO	DR 8 X 11

<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>			<b>E174361</b>	
5-DA-201-2 SHIWA INDUSTRIAL COMPLEX 664-1 SUNGGOG-DONG ANSAN-SHI KYONGGI-DO, KOREA				
Mtl	Coat Type		ANSI	Temp
Dsg	BC	OC	Type	Class
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.				

	DESIGN	CHECK	APPROVAL