CUSTOMER :

NO : NS-F0291

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

APPLICATION FOR APPROVAL OF

ITEM	: RADIAL INDUCTOR
DESCRIPTION	: DR 6.5x7.5mm
CODE NO	: DR2) 68mH(BULK & TAPPING)
MODEL NO	:

This space is used for customer's approval

DATE : 2015.10.29.

DRAWN BY Y. H. JEON	DATE 2015.10.29.
CHECKED BY	DATE.
APPROVED BY J. G. KIM	DATE 2015.10.29.

NAMSUN ELECTRONICS CO.,LTD

CUSTOMER :

SPECIFICATION		SHEET NO.	1 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

1. GENERAL SPECIFICATION

1) SCOPE

This specfication applies to part number 68mH 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℃ , 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℃ ± 2℃ 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℃ ± 2℃ 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℃ for 5±2 seconds

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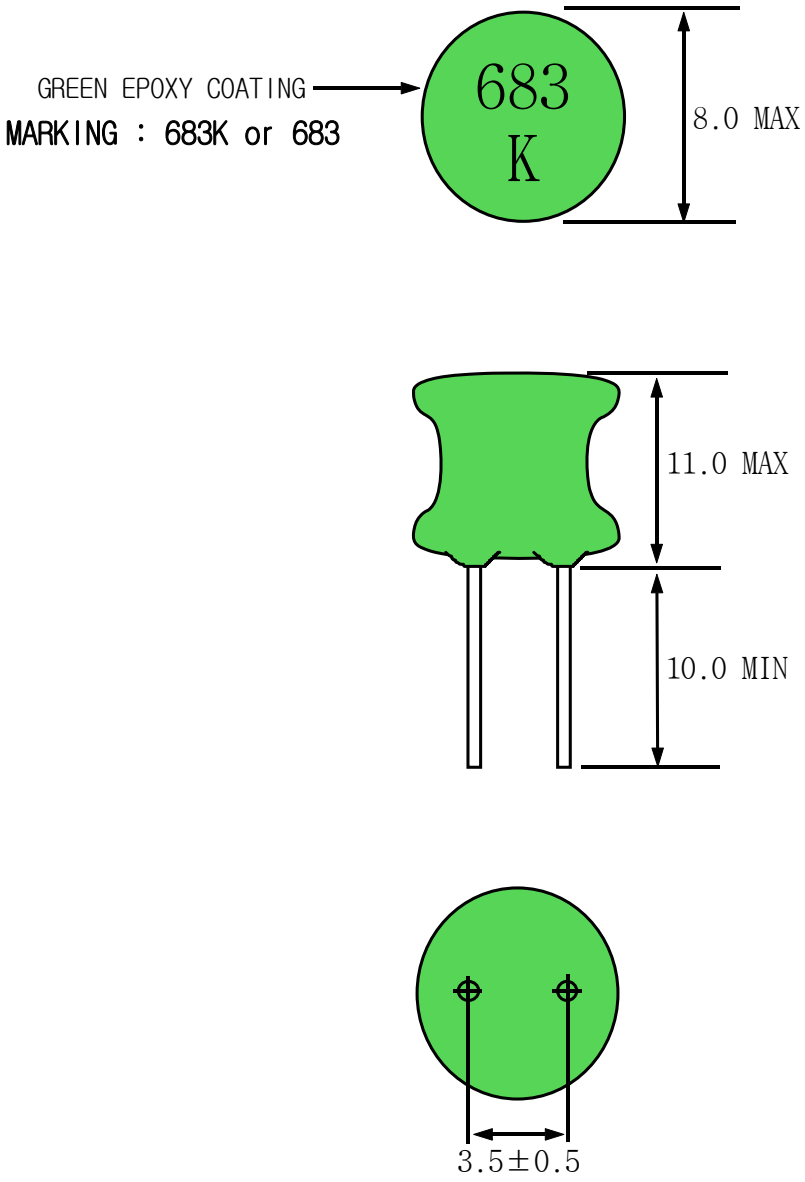
CUSTOMER :

SPECIFICATION		SHEET NO.	2 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

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



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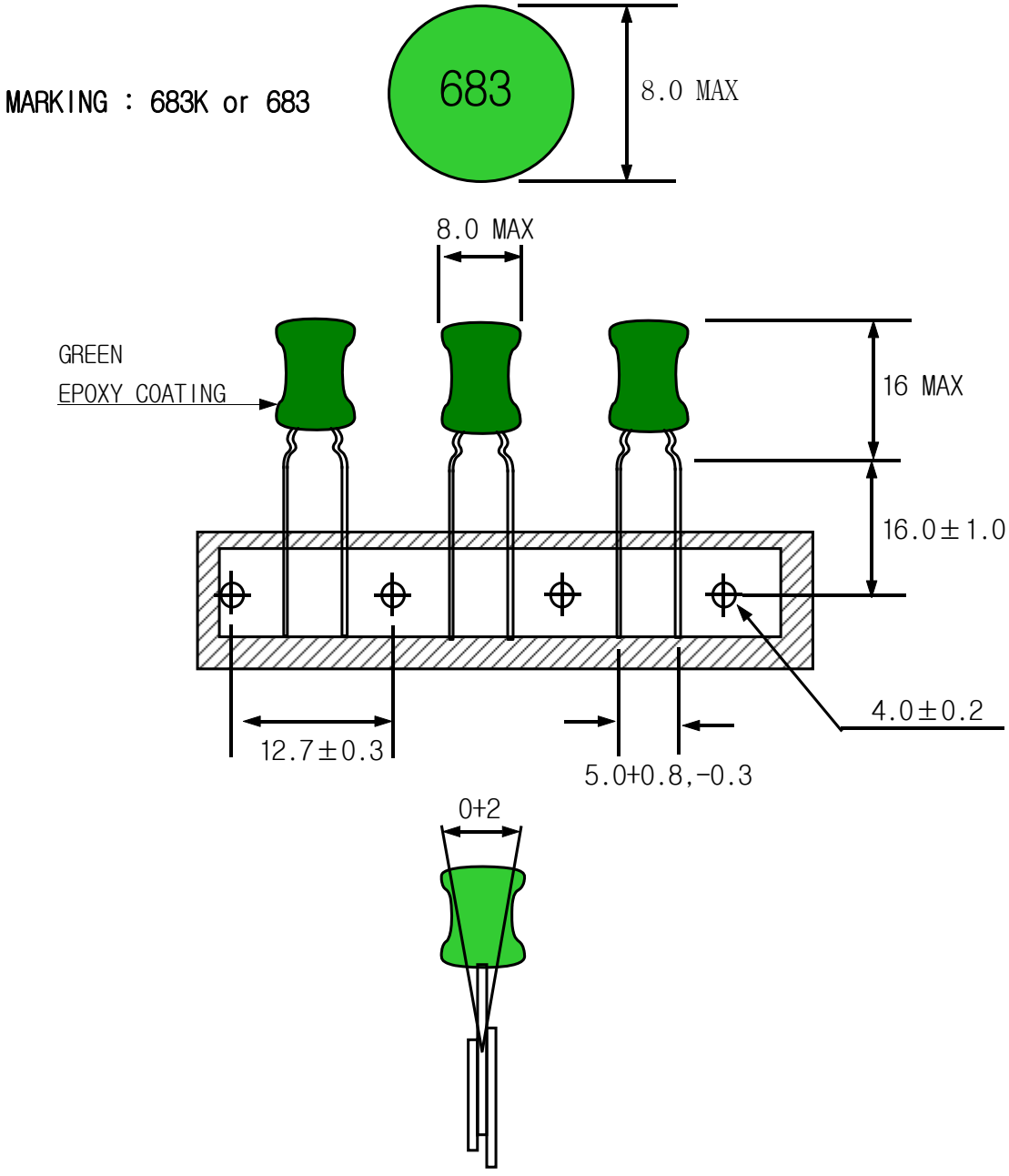
CUSTOMER :

SPECIFICATION		SHEET NO.	3 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

4-2. APPEARANCE & DIMENSION (UNIT:m/m)

MARKING : 683K or 683



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CUSTOMER :

SPECIFICATION		SHEET NO.	4 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

5. WINDING SPEC

START & FINISH	TYPE OF WIRE	T U R N S	WINDING METHODE
	2UEW 0.045Ø	1497.5 Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

NO	I T E M	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	68[mH] ± 10%	HIOKI3522 LCR METER at 1V 100㎑
3	DC RESISTANCE	START & FINISH	280.0 [Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
4	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC 1 [KV] , FREQUANCY 60 [Hz] , 1 MINUTES, CUT OFF CURENT 2 [mA]	NO BREAKDOWN
5	INSULATION RESISTANCE	COIL & CORE	DC 500 [V] , 100 [MΩ] MIN	DM-500AD

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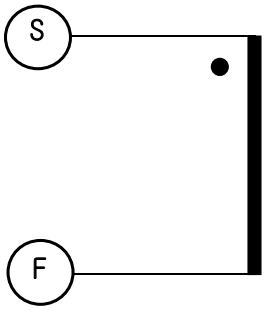
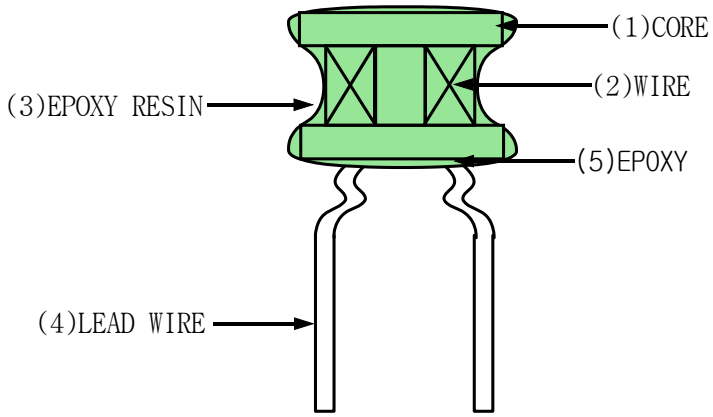
NAMSUN ELECTRONICS CO.,LTD

CUSTOMER :

SPECIFICATION		SHEET NO.	5 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

7. SCHEMATIC DIAGRAM





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NAMSUN ELECTRONICS CO.,LTD

CUSTOMER :

SPECIFICATION		SHEET NO.	6 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

8. MATERIAL LIST

NO	I T E M	MATERIAL & DIMENSITION	MANUFACTURE	REMARK
1	C O R E	JA3 DR 6.5x7.5mm	JIACI(ZHUHAI)ELECTRONICS CO.,LTD.	EQV
2	W I R E	2UEW 0.045Ø	CNI CABLE CO.,LTD. CHUNYI ELECTRICAL APPLLANCES CO.,LTD.D.	E210918 E198440 EQV
3	EPOXY RESIN	EPI-CHEM 930HF	SAMSIN CHEMICAL CO.,LTD.	E232031 EQV
4	LEAD WIRE	TPC 0.6Ø	KISTRON CO.,LTD YEHUA CO.,LTD.	EQV
5	EPOXY	EPI CHEM-2001HS FK661	SAMSIN CHEMICAL CO.,LTD. QUFU ELECTRONICS MATERIALS FACTORY	EQV
-	SOLDER BAR	HSE-09 Sn100	HEESUNG MATERIAL LTD. JIAMENG CO.,LTD.	EQV
-	FLUX	F181	ZHUHAI FRIEND INDUSTRIAL CO.,LTD.	EQV
-	INK	270BK HC-6519	DOMINO KOREA CO.,LTD. CANTON XING CHUANG CODING EQUIPMENT CO.,LTD.	EQV

9. TABLE OF STANDARD CHARACTERISTICS OF MATERIALS

PROPETY UNIT MATERIAL	μiac ±25%	WORKING FREQUENCY	Bms	TC	Br			
		MHZ	GAUSS	℃	GAUSS			
JA3	300	0.1-2.0	2400	150	1300			

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NAMSUN ELECTRONICS CO.,LTD

CUSTOMER :

SPECIFICATION		SHEET NO.	7 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

10. REMARK / SAMSIN[UL CARD]

UL iQ™ for Plastics

Need more information? Click Here to go to the iQ™ for Plastics database

Component - Plastics E232031

SAMSIN CHEMICAL CO LTD

182 ANNYUNG-RI, TAEAN-EUP, HWASUNG-SHI KYONGGI-DO 445-970 KR

930A/930B

Epoxy Casting Compound (EP - Casting), furnished as two liquid components

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	3.2	V-0	-	-	90	90	90

Comparative Tracking Index (CTI): -
Dimensional Stability (%): -
High-Voltage Arc Tracking Rate (HVTR): -
High Volt, Low Current Arc Resis (D495): -
Dielectric Strength (kV/mm): -
Volume Resistivity (10^x ohm-cm): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2002-12-04
Last Revised: 2006-04-04
Underwriters Laboratories Inc®

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	3.2	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

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The materials covered in this database are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UNDERWRITERS LABORATORIES INC.

Notice of Disclaimer

http://data.ul.com/link/plastics.aspx?PR=CAEUCNQYDGIBYEJSSALESLIJOCPHGVSQ[2011-04-12 오후 3:13:11]

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CUSTOMER :

SPECIFICATION		SHEET NO.	8 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

10. REMARK /CHUNYI[UL-CARD]

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 E198440
RM 348 FULI YINGFENG MANSION
NO 2 HUAQIANG RD ZHUJIANG XINCHENG
TIANHE DISTRICT
GUANGZHOU, GUANGDONG 528222 CHINA

Mtl Dsg	Coating Type		ANSI Type	TI
	BC	TC		
JEC-XPEW(QZ)	Polyester	—	—	155#
JEC-XUEW(QA)	Polyurethane	—	—	130#
JEC-X(EIW-AI/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 QZY-	Polyester-imide	—	MW30-C@	180
PEW or QZ-	Polyester-imide	—	MW5-C	155
QZ-*	Polyester-imide	—	@	130
EIW(AL) or QZY(L)-	Polyester-imide	—	MW74-A	200
	Polyester-imide	—	@	180
PEW (AL)or QZ(L)-	Polyester-imide	—	@	155
QZ(L)-*	Polyester-imide	—	@	130
PEW/NY or QZ/NY-	Polyester	Polyamide	MW76-C	180
	Polyester	Polyamide	MW24-C@	155
	Polyester	Polyamide	@	130
PEW/NY(AL)or QZ/NY(L)-	Polyester	Polyamide	MW76-A	180
	Polyester	Polyamide	MW24-A@	155

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CUSTOMER :

SPECIFICATION		SHEET NO.	9 OF 9
		D A T E	2015.10.29.
PART NAME	RADIAL INDUCTOR	MODEL NAME	
PART NO.	DR2-68mH-T.B	DESCRIPTION	DR 6.5 x 7.5mm

11. INSPECTION DATA

NO	INDUCTANCE	DCR	내전압	절연저항
SPEC	68mH ± 10%	280.0Ω MAX	AC 1.0KV 1분 MIN	DC 500V 100MΩ MIN
1	67.5	221.4	OK	OK
2	69.7	222.8	OK	OK
3	66.5	218.1	OK	OK
4	66.8	223.1	OK	OK
5	66.3	208.8	OK	OK
6	68.9	213.1	OK	OK
7	64.1	222.1	OK	OK
8	66.8	215.4	OK	OK
9	65.5	218.1	OK	OK
10	67.1	216.2	OK	OK
$\bar{X}$	66.92	217.91		
MIN	64.1	208.8		
MAX	69.7	223.1		

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