



승 인	
정식승인	()
한도승인	()

SPECIFICATIONS

CUSTOMER	
ITEM	Radial Inductor
MODEL NAME	DR2)682K-B & T
PART No	DR2)6.8mH(Tapping, Bulk)
DATE	2024-02-28

검 토	심 사	승 인
승인유효기간	승인일로부터 년	

신청회사명	 NAMSUN ELECTRONICS CO.,LTD. 	TEL	02-2689-9418
		FAX	02-2689-8628
주 소	Na-350b,CHUNG ANG CIRCULATION COMPLEX 15 GYUNGINRO 53-GIL GURO-GU SEOUL 08217 ,KOREA		

CUSTOMER : _____

SPECIFICATION

SHEET NO.

1 OF 9

DATE

2024.02.27

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)

DESCRIPTION

DR 6.5X7.5mm

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number 6.8mH 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 & LIFECHARACTERISTIC

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				YEON		MIN
2						
3						
4						



NAMSUN ELECTRONICS CO.,LTD.

CUSTOMER : _____

SPECIFICATION

SHEET NO.

2

OF

9

DATE

2024.02.27

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)

DESCRIPTION

DR 6.5X7.5mm

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

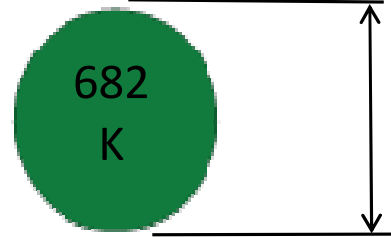
<Bulk type>

EPOXY COLOR

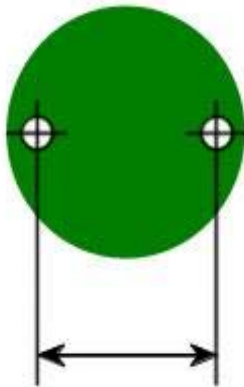
GREEN

MARKING : 682 or 682K

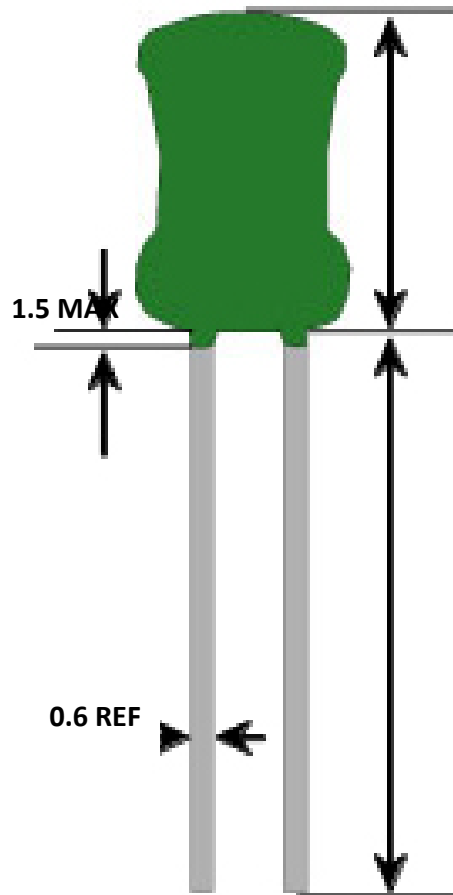
<TOP VIEW>



8.0 MAX



3.5 ± 0.5



11.0 MAX

1.5 MAX

10.0 MIN

0.6 REF

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						



NAMSUN ELECTRONICS CO.,LTD.

CUSTOMER :

SPECIFICATION

SHEET NO.

3

OF

9

DATE

2021-07-23

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)

DESCRIPTION

DR 6.5X7.5mm

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

<Taping type>

EPOXY COLOR

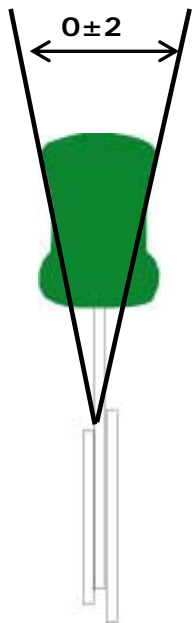
GREEN

<TOP VIEW>

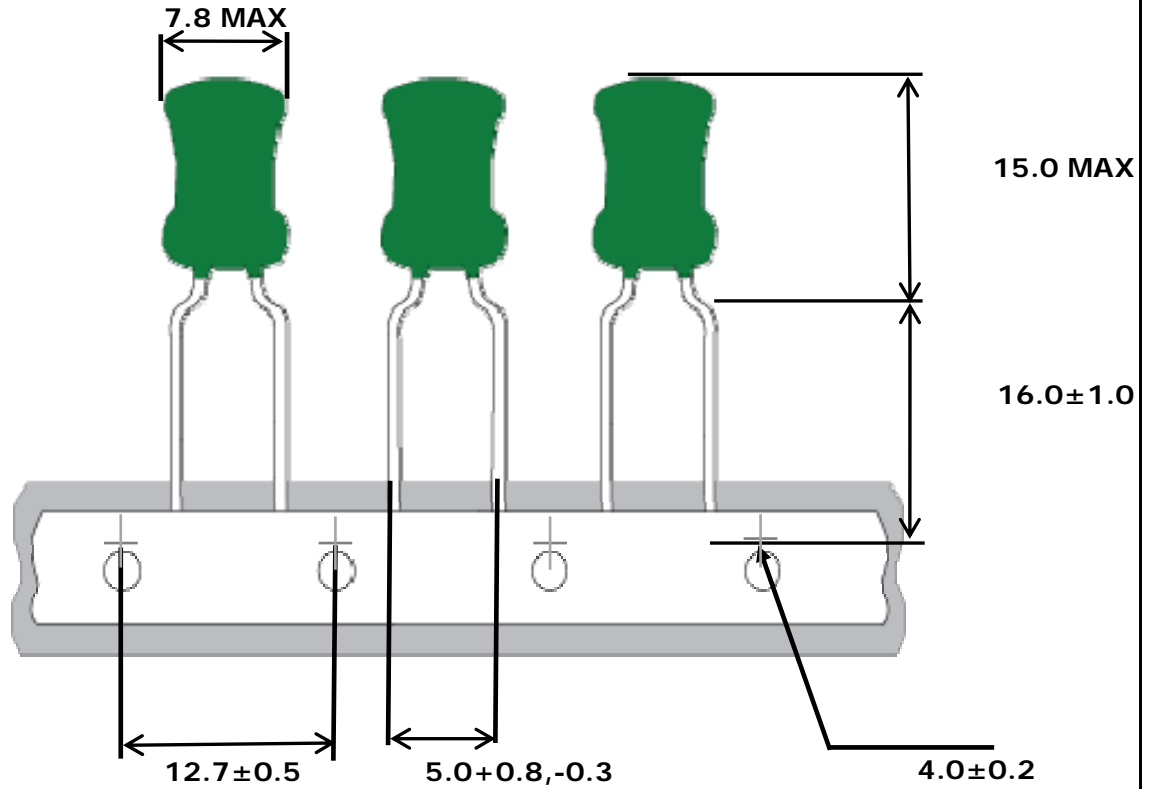


7.8 MAX

MARKING : 682 or 682K



0±2



7.8 MAX

15.0 MAX

16.0±1.0

12.7±0.5

5.0+0.8,-0.3

4.0±0.2

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						



NAMSUN ELECTRONICS CO.,LTD.

CUSTOMER :

SPECIFICATION

SHEET NO.

4

OF

9

DATE

2024.02.27

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)

DESCRIPTION


DR 6.5X7.5mm

5. WINDING SPEC

	TYPE OF WIRE	TURNS	WINDING METHODE
START & FINISH	2UEW 0.09Φ	471.5 Ts REF	SOLENOID WINDING [C . C . W]

6. ELECTRICAL CHARACTERISTIC

NO	ITEM	MESURE	SPECIFICATION	REMARKS
1	INDUCTANCE	START & FINISH	6.8[mH] ± 10%	HIOKI3522 LCR METER at 1kHz 1V
2	DC RESISTANCE	START & FINISH	22.5[Ω] MAX	WHEATSTONE BRIDGE TYPE 2755
3	DIELECTRIC WITHSTANDING TEST	COIL & CORE	AC 1 [KV] , FREQUANCY 60 [Hz] , 1 MINUTES, CUT OFF CURENT 2 [mA]	KIKUSUI TOS5302
4	INSULATION RESISTANCE	COIL & CORE	DC 500 [V] , 100 [MΩ] MIN	KIKUSUI TOS5302

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						

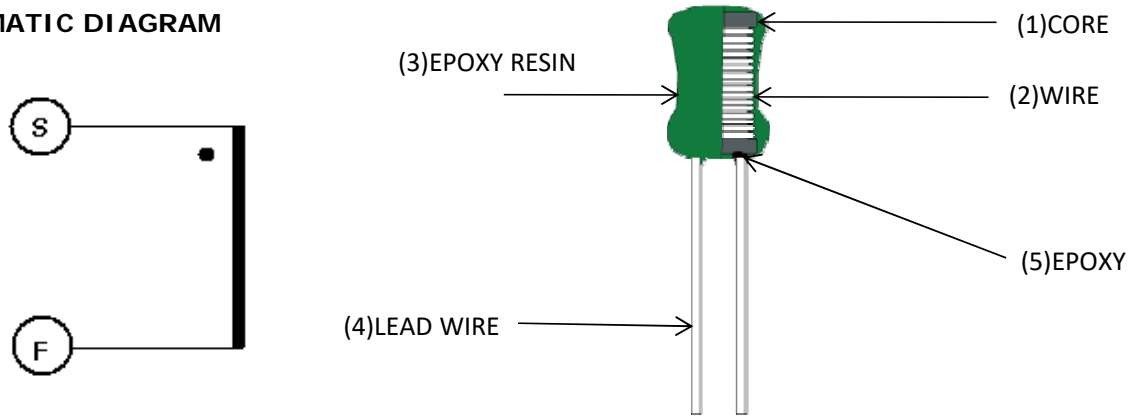


CUSTOMER : _____

<h1 style="margin: 0;">SPECIFICATION</h1>	SHEET NO.	5	OF	9
	DATE	2024.02.27		

PART NAME	Radial Inductor	MODEL NAME	DR2)6.8mH(682K)
PART NO.	DR2)6.8mH(682K)	DESCRIPTION	DR 6.5X7.5mm

7. SCHEMATIC DIAGRAM



8. MATERIAL LIST

NO	ITEM	MATERIAL & DIMENSION	MANUFACTURE	REMARK
1	CORE	JA3 DR 6.5X7.5mm	JIACI(ZHUHAI)ELECTRONICS CO.,LTD. or Equiv.	
2	WIRE	2UEW 0.09Φ	CHUNYI ELECTRICAL APPLANCES CO.,LTD. or Equiv.	E198440
3	EPOXY RESIN	EPI-CHEM 930	SAMSIN CHEMICAL CO.,LTD. or Equiv.	E232031
4	LEAD WIRE	TPC 0.6Φ	KISTRON CO.,LTD or Equiv.	
5	EPOXY	EPI CHEM-2001HS DZ-4-10	SAMSIN CHEMICAL CO.,LTD. JING DING SHENG CO.,LTD. or Equiv.	
-	SOLDER BAR	BLT-99307GB	DONGGUAN BEST ALLOYS CO.,LTD. or Equiv.	
-	FLUX	TFHF9200	TONGFANG ELECTRONIC CO.,LTD. or Equiv.	
-	INK	299BK IR-270BK	DOMINO KOREA CO.,LTD. RUIRUN LIMITED COMPANY or Equiv.	

9. TABLE OF STANDARD CHARACTERISTICS OF MATERIALS

PROPEY UNIT	μiac	Bms	Br	WORKING	Tc
MATERIAL	±25%	GAUSS	GAUSS	Frequency(MHZ)	℃
JA3	300	2400	1300	0.1~2.0	150

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						



CUSTOMER : _____

SPECIFICATION		SHEET NO.	6	OF	9
		DATE	2024.02.27		
PART NAME	Radial Inductor	MODEL NAME	DR2)6.8mH(682K)		
PART NO.	DR2)6.8mH(682K)	DESCRIPTION	DR 6.5X7.5mm		

10. REMARK-1 / CHUNYI [UL CARD]

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

Material Designation	Mark Dsg	Base Coat	Top Coat	ANSI Type	Temp Class
xPEW/180, QZY-x/180	xPEW/180, QZY-x/180	Polyester-imide	-	MW 30-C	180[#]
xUEW/155, QA-x/155	xUEW/155, QA-x/155	Polyurethane	-	MW 79-C	155[#]

[#] - The magnet wire may perform better than the rating reflects and may not be suitable for insulation system, varnish or end-product testing. Further consideration is necessary prior to its use in testing.

x - Where x may be replaced by 0, 1, 2 or 3 denoting the coating thickness.

Marking: Company name, material designation or marked designation and the Recognized Component Mark,  on the shipping spool label or smallest unit container in which the product is packaged.

[Last Updated](#) on 2018-01-30

10. REMARK-2 / SAMSIN [UL CARD]

Plastics - Component


[See General Information for Plastics - Component](#)

SAMSIN CHEMICAL CO LTD E232031
 182 ANNYUNG-RI
 TAEAN-EUP
 HWASUNG-SHI, KYONGGI-DO 445-970 REPUBLIC OF KOREA

Material Dsg	Color	mm	Class	I	I	Elec	Mech	Imp	Str	R	5	I
Epoxy Casting Compound (EP - Casting), furnished as two liquid components.												
930A/930B	ALL	3.2	V-0	-	-	90	90	90	-	-	-	-
Silicone Rubber, heat-cured paste., furnished as two liquid components.												
1021SA/1021SB	ALL	3.2	V-0	-	-	105	105	105	-	-	-	-

Marking: Company name or tradename "EPICHEM" and material designation on container, wrapper or finished part.

[Last Updated](#) on 2015-09-24

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						

CUSTOMER : _____

SPECIFICATION

SHEET NO.

7

OF

9

DATE

2021-07-23

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)

DESCRIPTION

DR 6.5X7.5mm

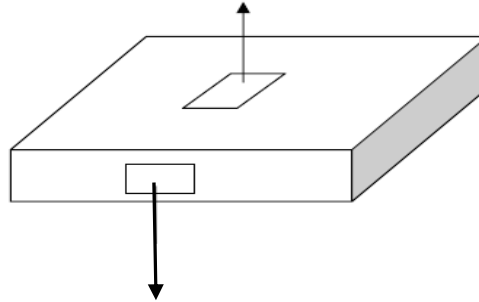
11. PACKING SPECIFICATION

ITEM	INNER BOX(PCS)	OUT BOX(PCS)
DR2-682K-T	1,500	7,500

INNER BOX : 340L*255W*50H(PUT 1500EA IN ONE INNER BOX)

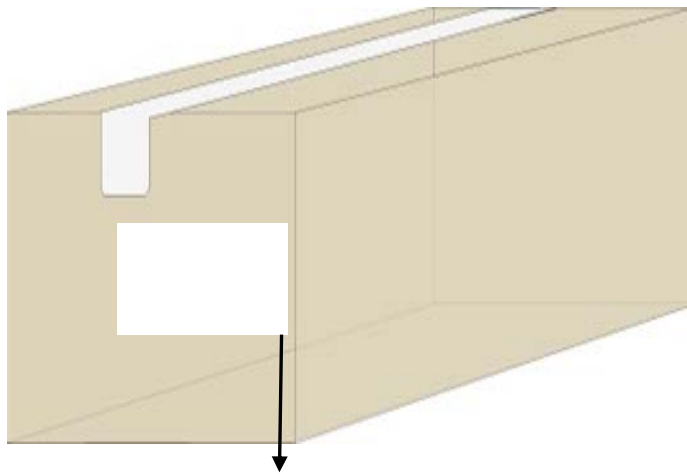


PRODUCTION LABEL



ITEM NO : DR2)6.8mH
CODE NO : DR2-682KT
Q, TY : 1,500PCS
LOT NO : NS-F7091
NAMSUN ELECTRONICS CO.,LTD.

OUT BOX : 360L*265W*285H(PUT IN FIVE INNER BOX)



LABEL

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						



NAMSUN ELECTRONICS CO.,LTD.

CUSTOMER : _____

SPECIFICATION		SHEET NO.	8 OF 9
		DATE	2024.02.27
PART NAME	Radial Inductor	MODEL NAME	DR2)6.8mH(682K)
PART NO.	DR2)6.8mH(682K)	DESCRIPTION	DR 6.5X7.5mm

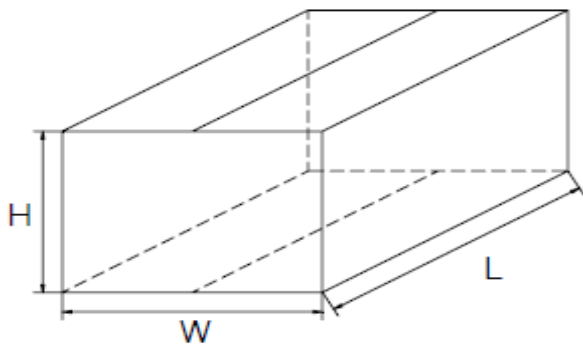
11. PACKING SPECIFICATION

ITEM	INNER BOX(PCS)	OUT BOX(PCS)
DR2)6.8mH(682K)	5,000	10,000

INNER BOX : 360L*175W*90H(PUT 5000EA IN ONE INNER BOX)

OUT BOX : 380L*360W*110H(PUT IN TWO INNER BOX)

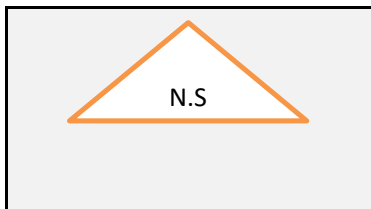
*OUT BOX SPECIFICATIONS



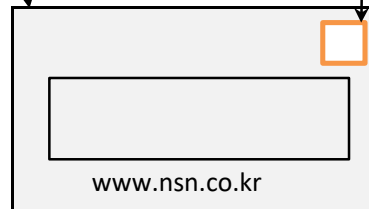
BOX LABEL

CODE NO : DR2)-682K-B00
 ITEM : 6.8mH DR 6.5*7.5
 LOT NO : YYMMDD
 Q'TY : 10,000EA

<OUT BOX SIDE VIEW>



<OUT BOX FRONT VIEW>



RoHS

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						



CUSTOMER : _____

SPECIFICATION

SHEET NO.

9 OF 9

DATE

2024.02.27

PART NAME

Radial Inductor

MODEL NAME

DR2)6.8mH(682K)

PART NO.

DR2)6.8mH(682K)


DESCRIPTION

DR 6.5X7.5mm

12. INSPECTION DATA

NO	INDUCTANCE	DC RESISTANCE	내전압	절연저항
SPEC	6.8[mH] ± 10%	22.5[Ω] MAX	AC 1KV 1분 MIN	DC 500V 100MΩMIN
1	6.97	17.3	OK	OK
2	6.92	17.7	OK	OK
3	6.97	17.9	OK	OK
4	6.97	16.9	OK	OK
5	6.82	17.7	OK	OK
6	6.96	17.0	OK	OK
7	6.90	17.2	OK	OK
8	6.92	17.3	OK	OK
9	6.97	17.5	OK	OK
10	6.87	17.1	OK	OK
X	6.927	17.36		
MIN	6.82	16.9		
MAX	6.97	17.9		

REMARK

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1				YEON		MIN
2						
3						
4						

