승 인	
정식승인	( )
한도승인	( )

SPECIFICATIONS

CUSTOMER	
ITEM	Toroidal Coil (BASE TYPE)
MODEL NAME	TOI-21*6-100uH-KVB
PART No	Φ21 x 100uH (C21 - A 6)
DATE	2014-12-23

검 토	심 사	승 인
승인유효기간	승인일로부터	년

신청회사명	남선전자주식회사	TEL	02-2689-9418
		FAX	02-2689-8628
주 소	Na-3506,Chungang Circulation Complex,1258 Kurobon-dong,Kuro-Ku,Seoul,Korea,152-721		

			/
SPECIFICATIONS		SHEET NO.	1 OF 6
		DATE	2014. 12. 19.
PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

1. GENERAL SPECIFICATION

1) SCOPE
This specification applies to part number 100uH CHOKE - COIL
for use in electronic appliances with is supplied for DANAM COMMUNICATIONS INC.

2. MECHANICAL

COIL - CHOKE shall conform in size, mounting dimension, and other mechanical properties, to the part drawing attached here to.

1) MARKING : COIL - CHOKE shall be permanently and legibly marked with the part number on the specified 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 terminals 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 COIL - CHOKE continuously operated at full load(test load) until constant temperature is attained.

2) HEAT-RESISTANCE : After 96±4 hours, 105℃±2℃ the insulation resistance should more than 100MΩ when be measured after 1~2hours in the standard condition

3) MOISTURE RESISTANCE : After 120±4 hours, 55℃±2℃ and 90~95% relative humidity the insulation resistance should more than 10MΩ when be measured after 1~2hours in the standard condition and wipped a drop of water.

4) SAFETY CONSIDERATION : COIL - CHOKE shall meet the all requirements subject to IEC-950 standards for safety of information technology equipment including electrical business equipment.

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DESIGN	CHECK	APPROVAL
개발실 최원규 14.12.19	개발실 김지희 14.12.19	개발실 최경미 14.12.19
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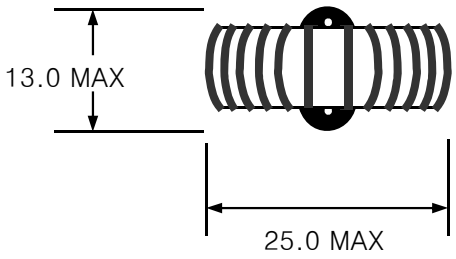
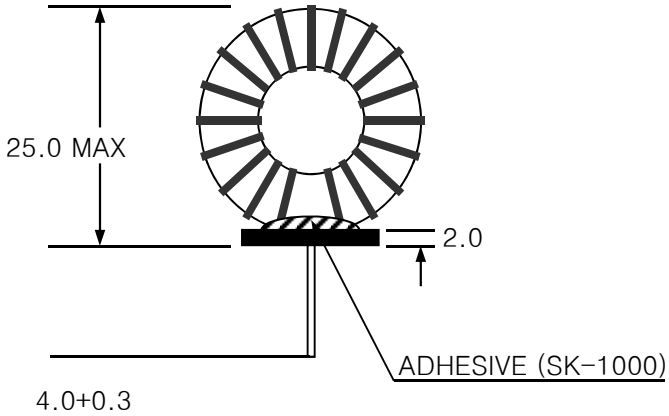
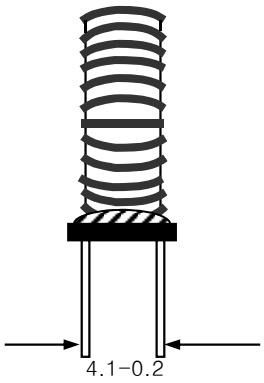
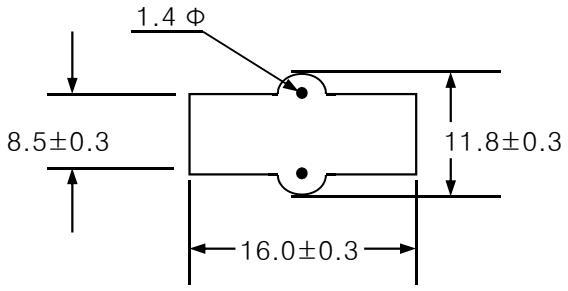
		DATE	2014. 12. 19.
PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

4. APPEARANCE & DIMENSION









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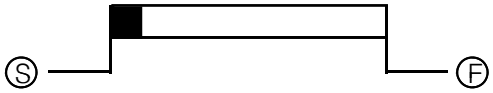
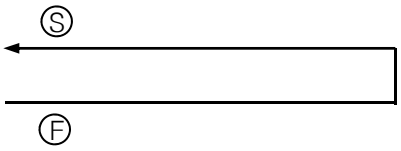
SPECIFICATIONS

		SHEET NO.	3 OF 6
		DATE	2014. 12. 19.
PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

5. SCHEMATIC DIAGRAM





WINDNG	BOTTOM VIEW	C.C.W
N.C PIN		
REMOVE PIN		

6. WINDING SPEC

WINDING ORDER	TERMINAL NO	WIRE	TURNS	WINDING METHOD
W1	START & FINISH	PEW 1.2 Φ	49 T	SOLENOID

7. ELECTRICAL CHARACTERISTIC

NO	CLOSURE	TERMINAL NO.	ELECTRICAL CHARACTERISTICS	TOLERANCE	CONDITION
1	INDUCTANCE	S - F	110.0 uH	±30%	PM - 6306 LCR-METER at 1.0 KHz. LEVEL : 1.0V r.m.s (25 ℃)
2	DC RESISTANCE	S - F	0.040 ohm	MAX	WHEATSTONE BRIDGE (Y.E.W 2755)
3	LAYER SHORT	AC 1.5KV 60Hz			
4	DC CURRENT OVERLAP	DC 1.5A, 80.0uH MIN(START TO FINISH)			
5	INSULATION RESISTANCE	DC 500V, 300M ohm MIN(COIL TO CORE)			
6	WITHSTAND VOLTAGE	AC 0.2KV r.m.s , 1MINUTE (COIL TO CORE) 5mA			

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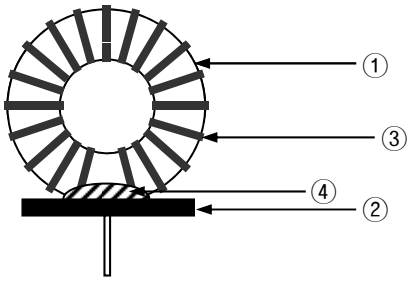
PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

8. INTERNAL STRUCTURE



9. MATERIAL LIST

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	REMARKS
1	CORE	C21-A6 (IRON) CK26-217 (IRON)	CORE ELECTRONICS CO.,LTD. CHOONG KWANG INDUSTRY CO.	
2	BASE	PHENOLIC (PF2736) 94V-0 14Φ小	BAKELITE GESELLSCHAFT MBH	E61040(M)
3	WIRE	POLYURETHANE PEW 1.2Φ	TAIHAN ELECTRIC WIRE CO.,LTD. DONGSUH ELECTRONICS CO.,LTD.	E109312(N) E210918
4	EPOXY RESIN	SK - 1000	SE GYE CHEMICAL CO.,LTD.	
5	FLUX	RF - 203 - H	DONG YUN KOREA CO.,LTD.	
6	SOLDER	SN98%,CU2%	ALPHA SOLDER CO.	

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SPECIFICATIONS		SHEET NO.	5 OF 6
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PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

10. UL LIST

BAKELITE GESELLSCHAFT MBH. E 61040 (M)
GENNAER STRASSE 2-4 D-5860, ISERLOHN-LETMARHE
FED REP GERMANY

Mtl Dsg	Col	Min ThK mm	UL94 Flame Class	Elec	Mech with Imp	RTI w/o Imp	H D H W I	H A I	V T R	4 9 5	C T I
Phenolic molding compound(PF), designated "Rutaform" or Bakelite", furnished in the form of pellets or power.											
PF2736	BK	0.81	94V-0	150	150	150	-				
		1.57	94V-0	150	150	150	0	2	0	-	-
		3.07	94V-0	150	150	150	0	2	0	5	3
		3.07	94V-0	150	150	150	0	2	0	5	3

TAIHAN ELECTRIC WIRE CO., LTD. E 109312 (N)
194-15 1-KA HOEHYUN-DONG CHUNG-KU CPO
BOX 2624, SEOUL KOREA

Mtl Dsg	Coat type BC	Overcoat	ANSI Type	T1
Magnet wire.				
EI-AIW	Ester-imide imide	Polyamide-imide	MW35.73	200
AL EI-AIW	Ester-imide	Polyamide-imide	MW35	240
EIW	Ester-imide	-	MW30.72	180
EIW-N	Ester-imide	Polyamide	MW76	180
AIW	Polyamide-imide	-	-	220
PEW-N	Polyester	Polyamide	MW76	180
SEIW	Solderable Polyester-imide	-	MW77	180
UEW	Polyurethane	-	MW75	130
UEW-N	Polyurethane	Polyamide	MW80	155

Reports : April 2, 1987; April 2, 1987; April 2, 1987; April 2, 1987: April 2, 1987; April 2, 1987' April 2, 1987; April 2, 1987; April 2, 1987.

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SPECIFICATIONS		SHEET NO.	6 OF 6
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PART NAME	CHOKE COIL	MODEL NAME	
PART NO.	Φ21*6x100uHxBASE	TYPE	C21-A6 (21Φ)

UL LIST

DONG SUH ELECTRONICS CO., LTD E 210918
55-1 BUNSU 3-RI KWANGTAN-MYUN PAJU KYONGGI-DO
413-850, KOREA

Mtl Dsg	Mark Dsg	Coat type BC	Overcoat	ANSI Typ(+)	T1
DSUEW-100	(1)	Polyurethane	-	MW75C	130
UEW	(1)	polyurethane	None	MW79	155
				MW75	130(2)
PEW	(1)	Polyester	None	MW30	180
				MW5	155(2)

(1) Marked designations are the same as the material designations.

(2) Additional consideration is needed before its use in System's thermal aging.

Marking : Company name, materal designation or marked designation on package or reel, and Recognized Component Mark.

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