


# SPECIFICATIONS

<b>CUSTOMER</b>	
<b>ITEM</b>	<b>LINE FILTER</b>
<b>MODEL</b>	<b>UU1014-50mH-V</b>
<b>TYPE</b>	<b>UU1014(V)</b>
<b>PART NO.</b>	<b>50mH</b>
<b>ERP CODE</b>	<b>NS-KB-00145</b>

<b>DESIGN</b>	<b>CHECK</b>	<b>APPROVAL</b>
2019.12.23	2019.12.23	2019.12.23
<b>A TERM OF VALIDITY</b>		<b>YEAR</b>

<b>REQUEST CUSTOMER</b>	 <b>NAMSUN ELECTRONICS CO., LTD</b>		
<b>ADDRESS</b>	Na-3506, Chungang Circulation Complex, 1258 Kurobon-dong, Kuro-Ku, Seoul, Korea, 152-721		
<b>TEL</b>	02-2689-9418	<b>FAX</b>	02-2689-8628
<b>HOMEPAGE</b>	<a href="http://www.nsn.co.kr">http://www.nsn.co.kr</a>		



### REVISION RECORD

REV NO.	DATE	PAGE	REVISION CONTENTS	REVISION REASON
0	19.12.23		신규작성	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

**1. APPLICATION**

This specification is applied to inspection and approval of the LINE FILTER - 50mH

**2. GENERAL PREFERENCE**

The reinspection & reapproval is required to change the structure, quality, progress of this specification.

**3. ABSOLUTE REGULARITY**

- 1) Keep temperature : -10℃ ~ 60℃
- 2) Keep humidity : 20% ~ 95%
- 3) Use temperature : -10℃ ~ 70℃
- 4) Use humidity : 20% ~ 85%

**4. MECHANICAL CHARACTERISTIC**

## 1) TERMINAL TENSION INTENSITY

After fix the body the terminal shall withstand for 5 seconds without losing when a static load of 2.0Kg is applied to drawing direction of the terminal.

## 2) TERMINAL BEND INTENSITY

The terminal shall withstand without losing and shortage when return after bend 1 time to the left side and 1 time right side with a static load.

## 3) VIBRATION TEST

After fix a body of the vibration board the terminal shall withstand without losing and bend when operate vibration test of 3 direction (X,Y,Z) for 2 hours

- Frequency : 10 ~ 55
- Amplitude : 0.75

**5. ELECTRICAL CHARACTERISTIC**

## 1) INSULATION RESISTANCE

- ㄱ) Primary coil to core: Shall be more than 100 MΩ when measured with DC 0.5 Kv
- ㄴ) Primary coil to Secondary coil : Shall be more than 100 MΩ when measured with DC 0.5 Kv
- ㄷ) Secondary coil to core: Shall be more than 100 MΩ when measured with DC 0.5 Kv

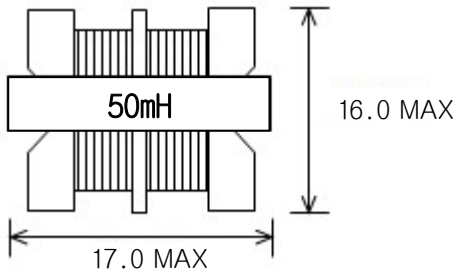
## 2) WITHSTAND VOLTAGE

- ㄱ) Primary coil to core : Shall be no damage when measured AC 0.5Kv, 10mA, for 1 MIN.
- ㄴ) Primary coil to Secondary coil : Shall be no damage when measured AC 1.0Kv 10mA, for 1 MIN.
- ㄷ) Secondary coil to core : Shall be no damage when measured AC 0.5Kv, 10mA, for 1 MIN.



### 6. APPEARANCE & DIMENSION

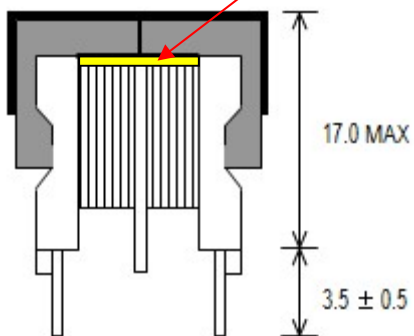
< TOP VIEW >



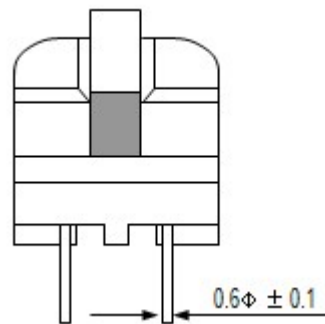
높이 12mm 보빈 적용 할 것.

CORE 조립 전 PS TAPE 절연 진행 할 것.

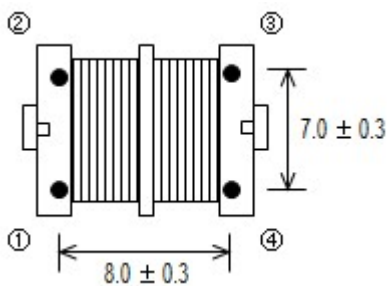
< FRONT VIEW >



< SIDE VIEW >

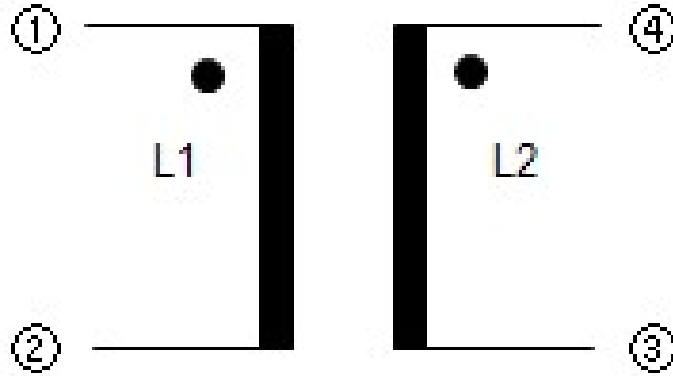


< BOTTOM VIEW >





**7. WINDING CONNECTION SCHEMATIC (BOTTOM VIEW)**



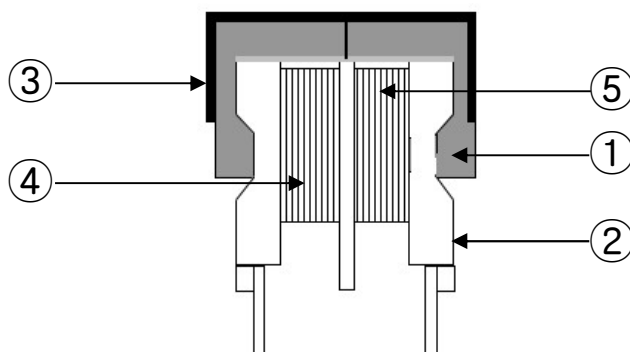
WINDING	SECONDARY VIEW	C.C.W
N.C PIN		
REMOVE PIN		
TUBE		

**8. WINDING SPECIFICATION**

NO	TERMINAL		WIRE (2UEW)	TURNS	L (H)	WINDING METHOD	INSULATION		BARRIER	
	S	F					MATERIAL (P.S TAPE),T/W	Ts	PIN	TOP
L1	1	2	0.15Φ	225 Ts	50.0 mH Min	SOLENOID				
L2	4	3	0.15Φ	225 Ts	50.0 mH Min	SOLENOID				

**9. ELECTRICAL CHARACTERISTICS**

NO	CLOSURE	TERMINAL NO.	SPECIFICATION	CONDITION
1	INDUCTANCE	1 - 2 4 - 3	50.0 mH MIN	LCR METER UC2878-UCE (1KHZ. 1V)
2	INSULATION RESISTANCE	COIL - COIL COIL - CORE	100 Mohm MIN at DC 500V	MEGOHM METER (SM-5E)
3	WITHSTANDING VOLTAGE	P COIL - S COIL	AC 1.0KV RMS 3SEC	KIKUSUI : TOS-5050 Cut off CURRENT 10mA
		P COIL - CORE	AC 500V RMS 3SEC	
		S COIL - CORE	AC 500V RMS 3SEC	

**10. SECTION DIAGRAM****11. MATERIAL LIST**

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	UL No.
1	CORE	UU1014 (R12K) UU1014 (R12K) UU1014 (SM120) UU1014 (R12K)	HENGDIAN GROUP DMEGC MAGNETICS CO.,LTD. NANTONG GUANYOUDA MAGNETIC.,LTD. SAMWHA ELECTRONICS CO.,LTD. SHANGHAI JISHUN MAGNETIC MATERIAL CO.,LTD.	
2	BOBBIN	PHENOLIC UU1014 "V" TYPE 4PIN	CHANG CHUN PLASTICS CO.,LTD. HEXION GMBH.	E59481 E61040
3	SPRING HOLDER	STAINLESS STEEL SUS31	DAEHYUN INDUSTRIAL. JINWON BOBBIN. YANTAI JIAYU ELECTRONICS CO.,LTD.	
4	WIRE	POLYURETHANE 2UEW 0.15Ø	SHANDONG PENGTAI STOCK CO.,LTD. CNI ELECTRONICS CO.,LTD. ZHEJIANG HONGBO TECHNOLOGY CO.,LTD.	E166187 E141925 E221719
5	INSULATION TAPE	POLYESTER TAPE 4.0mm	WEI HAI KANG LI TAPE CO.,LTD. JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD.	E475896 E165111
6	FLUX	LF-715K	DUI YUAN TECH (HUI ZHOU) CO.,LTD.	
7	SOLDER	SN99.5% , CU0.5%	LT MATERIAL CO.,LTD. ALPHA METAL.	
8	VARNISH	R-831- T-4260a	ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO.,LTD. SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO.,LTD.	E227128 E228349
9	MARKING INK	BONMARQUE MONAMI INK HITACHI IJ PRITER	T & K TOKA	