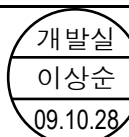
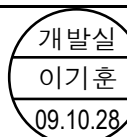
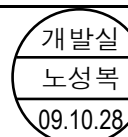


개 정 이 력

CUSTOMER		NAMSUN		MODEL NO	NSH-103
PART NO		10mH(UU1014-H)		ITEM	LINE FILTER
NO	DATA	Page	개 정 항 목	개 정 사 유	확인
0	2009. 10. 28			초도발행	
1	2010. 04. 14	3	B/B 높이수정	실높이 수정	
2	2022. 07. 22	ALL	WIRE 변경 MATERIAL 변경	배부름으로 WIRE 0.26φ->0.24φ로 변경 현 사용하는 원자재 반영	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

 **NAMSUN ELECTRONICS CO., LTD.**

Na-3506, CHUNG ANG CIRCULATION COMPLEX 15
GYUNGINRO 53-GIL GURO-GU, SEOUL 08217, KOREA

DESIGN	CHECK	APPROVAL
		
FILE NO.	SH - 091028 - 72	

APPROVAL SHEET

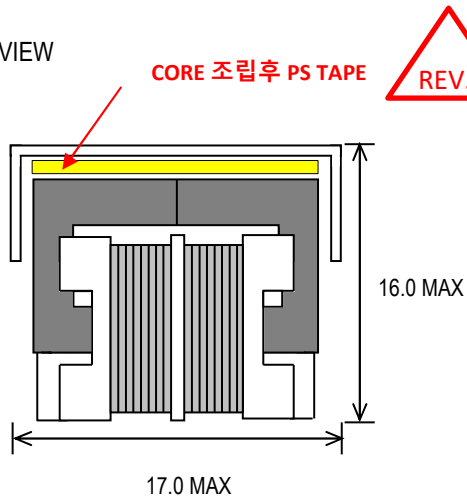
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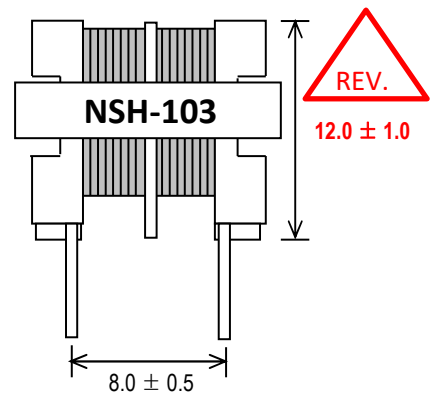
CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

1. APPEARANCE & DIMENSION

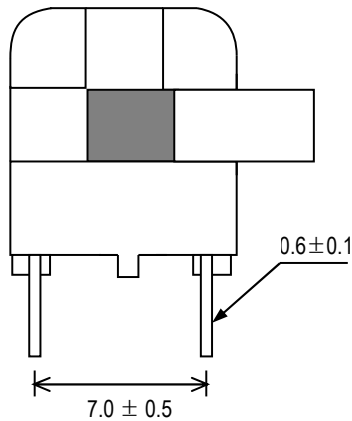
1) TOP VIEW



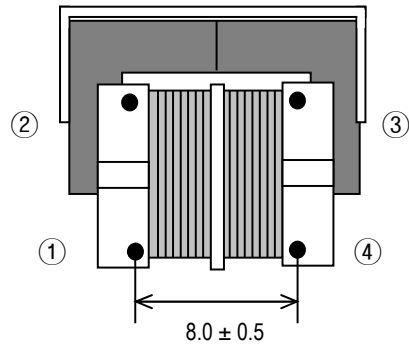
2) FRONT VIEW



3) SIDE VIEW



4) BOTTOM VIEW



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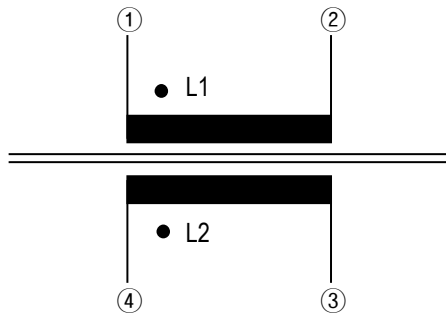
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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

2. SCHEMATIC DIAGRAM (BOTTOM VIEW)



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

3. WINDING SPECIFICATION

WINDING ORDER	NAME	TERMINAL	WIRE	REV.2	TURNS	WINDING METHOD
1	L1	1 - 2	UEW 0.24Φ * 1P		90T (Ref.)	SOLENOID WINDING
2	L2	4 - 3	UEW 0.24Φ * 1P		90T (Ref.)	SOLENOID WINDING

4. ELECTRICAL CHARACTERISTICS

NO	CLOSURE	TERMINAL NO.	SPECIFICATION	CONDITION
1	INDUCTANCE	1 - 2 4 - 3	10mH MIN	HP-4284A at 1KHz, 1Vrms
2	DC RESISTANCE	1 - 2 4 - 3	Ω MAX Ω MAX	WHEATSTONE BRIDGE TAPE 2755, TYPE 3220
3	LAYER SHORT		AC 1.4KV, 1 MIN.	
4	DIELECTRIC STRENGTH	L1 - L2 COIL - CORE	AC1.5KV, 10mA . 1 MIN.	KIKUSUI : TOS-5050 (CURRENT SENSITIVE:5mA)
5	INSULATION RESISTANCE		100 Mohm MIN at DC 500V	MEGOHM METER (SM-5E)

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Na-3506, CHUNG ANG CIRCULATION COMPLEX 15
GYUNGINRO 53-GIL GURO-GU, SEOUL 08217, KOREA

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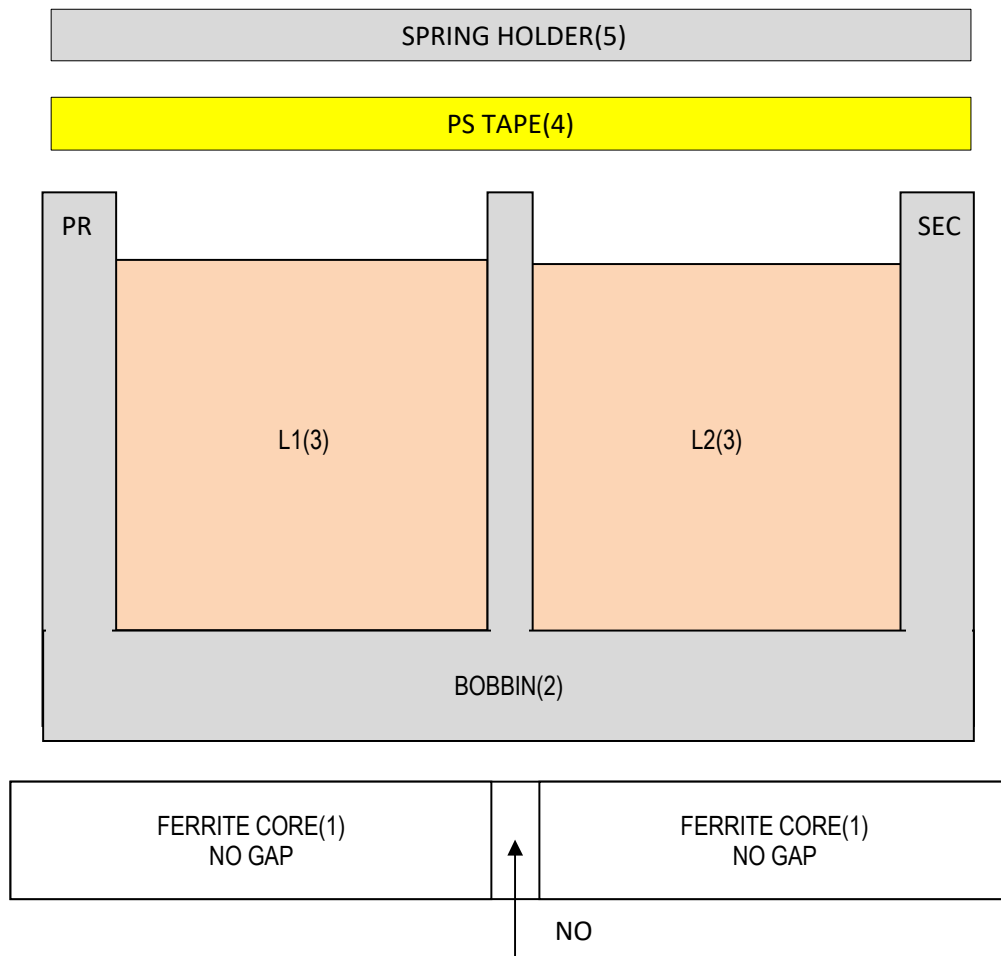
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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

5. CONSTRUCTION



- * WINDING :
- * PS TAPE :

NAMSUN ELECTRONICS CO., LTD.

Na-3506, CHUNG ANG CIRCULATION COMPLEX 15
 GYUNGINRO 53-GIL GURO-GU, SEOUL 08217, KOREA

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CUSTOMER NAMSUN

PART NAME LINE FILTER MODEL NO. NSH-103

PART NO. 10mH SIZE NO. UU 1014 (H)

6. MATERIAL LIST

REV.2

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	UL No.
1	CORE	UU 1014 (SM-120) UU 1014 (R12K) UU 1014 (KH12)	SAMWHA ELECTRONICS CO.,LTD. LAIWU CHANINWELL. SHANDONG KAITONG ELECTRON CO.,LTD.	
2	BOBBIN	PHENOLIC 94V-0 [UU 1014 4P V-TYPE]	CHANG CHUN PLASTICS CO.,LTD.(T375HF) HEXION GMBH.(PF2736(a)(b))	E59481 E61040
3	WIRE	POLYURETHANE UEW 0.24Φ	YANTAI ROME ELECTRONIC CO.,LTD. (UEW MW75-C) CNI Electronics Co Ltd (UEW MW75-C) ZHEJIANG HONGBO TECHNOLOGY CO.,LTD. (xUEW/130, QA-x/130,xUEW@/130, QA@-x/130)	E166187 E210918 E221719
4	INSULATION TAPE	POLYESTER FILM TAPE	WEIHAI KANGLI TAPE CO LTD JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD .	E511186 E165111
5	SPRING HOLDER	STAINLESS STEEL (SUS31)	YANTAI SHENGYU ELECTRONICS CO.,LTD.	
6	VARNISH	R-831- T-4260a	ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO., LTD. SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO., LTD.	E227128 E228349
7	FLUX	LF-715K EF-9301	DUI YUAN INDUSTRY SCIENCE&TECHNOLOGY(HUIZHOU)CO.,LTD. ALPHA METALS CO.,LT	
	SOLDER	Sn 99.5%, Cu 0.5% Sn 99.3%, Cu 0.7%	LT MATERIAL CO.,LTD. ALPHA OMEGA METAL.	

 **NAMSUN ELECTRONICS CO., LTD.**

Na-3506, CHUNG ANG CIRCULATION COMPLEX 15
GYUNGINRO 53-GIL GURO-GU, SEOUL 08217, KOREA

DESIGN

CHECK

APPROVAL

개발실
이상순
09.10.28

개발실
이기훈
09.10.28

개발실
노성복
09.10.28

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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

7. UL LIST



[BASE - PHENOL]

CHANG CHUN PLASTICS CO LTD

E59481

No 8 Huaxi Rd

Daliao District

Kaohsiung City, 83164 TAIWAN

Mtl Dsg	Color	Min. Thk mm	Flame Class	H	H	H	RTI		C	
				W	A	V	Elec	Mech	T	
				I	I	A	Imp	Str	I	
Phenolic Molding Compound (PMC), "LONGLITE", furnished as pellets, granular material, or powder.										
T375HF	BK	0.43	V-0	0	0	0	150	150	150	3
		0.75	V-0	0	0	0	150	150	150	
		3.2	V-0	0	0	0	150	150	150	



Marking: Company name or tradename "LONGLITE", "SUMIKON" or trademark material designation, generic polymer identification, color number where appropriate and batch or lot number or date of manufacture on container, wrapper or molded on finished part.

NAMSUN ELECTRONICS CO., LTD.

Na-3506, CHUNG ANG CIRCULATION COMPLEX 15
GYUNGINRO 53-GIL GURO-GU, SEOUL 08217, KOREA

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PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

[BASE - PHENOL]

HEXION GMBH

E61040

POSTFACH 7154

58609 ISERLOHN, GERMANY

		Min.		H	H	H	RTI		C	
		Thk	Flame	W	A	V	Elec	Mech	T	
Mtl Dsg	Color	mm	Class	I	I	A		Imp	Str	I
Phenolic (PF), "Rutaform, Bakelite", furnished as pellets, powder, granular material.										
PF 2736(a)(b)	BK	0.46	V-0	-	-	-	150	150	150	3
	ALL	0.81	V-1	0	2	-	150	150	150	
	NC, GN, BK	0.81	V-0	0	2	-	150	150	150	
	ALL	1.5	V-0	0	2	-	150	150	150	
		3.0	V-0	0	2	-	150	150	150	

(a) - Optional Suffix "H".

(b) - Grade designation may be followed by a four digit number representing color, P or S indicating type of molding, a single digit representing slight color variation.

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



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PART NO.	10mH	SIZE NO.	UU 1014 (H)

[WIRE - UEW]

YANTAI ROME ELECTRONIC CO LTD

E166187

DAXINDIAN TOWN



PENGLAI, SHANDONG 265612 CHINA

Mtl Dsg	Coat Type		ANSI Type	Temp Class
	BC	OC		
PTMW75, xUEW/130, QA-x/130	Polyurethane	—	MW75	130

[#] - 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.

@ - May be replaced by LITZ, USTC or UDTC. Where LITZ-signifies magnet wires twisted together; USTC-include single layer polyester filament yarn covering; UDTC-include double layer polyester filament yarn covering.

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

Marking: Company name or trademark  , 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.

 **NAMSUN ELECTRONICS CO., LTD.**

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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

[WIRE - UEW]

CNI ELECTRONICS CO LTD

E210918

201 MUNMAKGONGDAN-GIL MUNMAK-EUP

WONJU-SI, GANGWON-DO 26362 REPUBLIC OF KOREA



Material Designation	Mark Dsg	Base Coat	Top Coat	ANSI Type	Temp Class
UEW(B)	UEW(B)	Polyurethane	-	MW 75-C	130[#]

[#] - 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.

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

 **NAMSUN ELECTRONICS CO., LTD.**

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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

[WIRE - UEW]

ZHEJIANG HONGBO TECHNOLOGY CO LTD

E221719

WAN TAN WAN INDUSTRY ZONE

LIANSHI TOWN

HUZHOU


ZHEJIANG 313013 CHINA

Mtl Dsg	Coat Type		ANSI Type	Temp Class
	BC	OC		
xUEW/130, QA-x/130,xUEW@/130, QA@-x/130	Polyurethane	—	MW75-C	130#

[#] - 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.

@ - May be prefixed by LZ signifies magnet wires twisted together.

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.

 **NAMSUN ELECTRONICS CO., LTD.**

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CUSTOMER	NAMSUN		
PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

[TAPE - POLYESTER FILM TAPE]

GUANGDONG KANGLI NEW ENERGY MATERIALS TECHNOLOGY CO LTD E511186

BUILDING 4, NO. 109, YADI SOUTH ROAD, QIAOTOU TOWN,

DONGGUAN CITY, GUANGDONG CHINA

523000 DONGGUAN, CHINA

Cat. No.	Color	Temp (°C)	Optional Ratings		
			Flame Retardant+	Sunlight Resistant+	Cold Resistant+
PET film insulating tape with Acrylic adhesive.					
KL-168	All except clear	130	Yes	No	No

+ Complies with "Flame Retardant" and/or "Cold Resistant" and/or "Sunlight Resistant" requirements if authorized in the table above and when so marked.

Marking: Company name and catalog designation printed on the central paper core or outer package.

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PART NO.	10mH	SIZE NO.	UU 1014 (H)

[TAPE - POLYIMIDE FILM TAPE]

JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD

E165111

SOUTHWEST AROUND RD

JINGJIANG, JIANGSU 214500 CHINA

		Optional Ratings			
Cat. No.	Color	Temp (°C)	Flame Retardant+	Sunlight Resistant+	Cold Resistant+
Polyimide film insulating tapes					
PF* (d)(g)	Amber	180	Yes	No	No

+ Complies with "Flame Retardant" and/or "Cold Resistant" and/or "Sunlight Resistant" requirements if authorized in the table above and when so marked.

(b) - Comparative Tracking Index (CTI) performance indicates material Group IIIa, PLC=2, CTI equal to or greater than 250 but less than 400 v.

(c) - Comparative Tracking Index (CTI) performance indicates material Group I, PLC=0, CTI equal to or greater than 600 v.

(d) - Comparative Tracking Index (CTI) performance indicates material Group IIIb, PLC=4, CTI equal to or greater than 100 v but less than 175v.

(f) - The CTI test was conducted indicates material Group I, PLC=0, CTI equal to or greater than 600 v per IEC 60112, 4th Edition 2003 and the assigned level is based on the testing of both film and adhesive sides.

(g) - The CTI test was conducted per IEC 112, 3rd Edition 1979 and the assigned level is based on the testing of both film and adhesive sides.

(h) - The CTI test was conducted per IEC 60112, 4th Edition 2003 and the assigned level is based on the testing of both film and adhesive sides.

* - May be followed by suffixes

Marking: Company name or tradename "E165111" and catalog designation printed on the central paper core or outer package.

Last Updated on 2016-07-12



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PART NAME	LINE FILTER	MODEL NO.	NSH-103
PART NO.	10mH	SIZE NO.	UU 1014 (H)

[VARNISH]

SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD

E228349

BEI SHI

WUJIANG, JIANGSU 215214 CHINA

Varnish Designation	ANSI Type	Thermal Class (°C)		
		Twisted Pair	Helical Coil	Curved Electrode
T-4260(a)	MW 28-C	130	-	-
	MW 76-C	180	-	-
	MW 80-C	155	-	-

(a) - May be followed by one or two alphanumeric suffix indicating viscosity.

Marking: Company name and model designation.

 **NAMSUN ELECTRONICS CO., LTD.**

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PART NO.	10mH	SIZE NO.	UU 1014 (H)

[VARNISH]

ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO LTD

E227128

NO. 235 MINGXIN RD, DAQIAO TOWN

JIAXING, ZHEJIANG 314006 CHINA

Varnish Designation	ANSI Type	Thermal Class (°C)		
		Twisted Pair	Helical Coil	Curved Electrode
R-1140-*, R-410-*, R-510-*	MW 30-C	180	200	-
	MW 5-C	155	-	-
R-1146-*, R-202-*	MW 5-C	155	-	-
R-405-*	MW 5-C	180	-	-
R-610-*	MW 35-C	180	-	-
R-611-*	MW 35-C	240	220	-
R-831-*	MW 5-C	180	-	-

* - Optional alphanumeric suffix.

Marking: Company name and model designation.

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