


승 인	
정식승인	()
한도승인	()

SPECIFICATIONS

CUSTOMER	
ITEM	LINE FILTER
MODEL NAME	NSF-103
PART No	UU1116-10mH (V-TYPE)
DATE	2008.08.27.

검 토	심 사	승 인
승인유효기간	승인일로부터	년


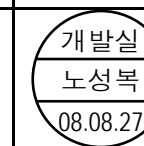
신청회사명	 NAMSIN ELECTRONICS CO., LTD	TEL	02-2689-9418
		FAX	02-2689-8628
주 소	Na-3506, Chungang Circulation Complex, 1258 Kurobon-dong, Kuro-Ku, Seoul, Korea, 152-721		

개 정 이 력

CUSTOMER				MODEL NO	NSF-103
PART NO		UU1116-10mH-V-TYPE		ITEM	LINE FILTER
NO	DATA	Page	개 정 항 목	개 정 사유	확인
1	2008. 08. 27			초도발행	
2	2017.08.25	4	UEW 0.30Φ 변경 전 ↓ UEW 0.35Φ 변경 후	업체 요청사항	
3	2023.03.13	4 - 9	INDUCTANCE 변경 MATERIAL 및 UL 변경	업체 요청사항 적용 원자재로 업데이트	
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 **NAMSUN ELECTRONICS CO., LTD.**

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

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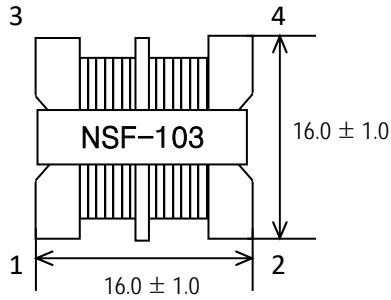
APPROVAL SHEET

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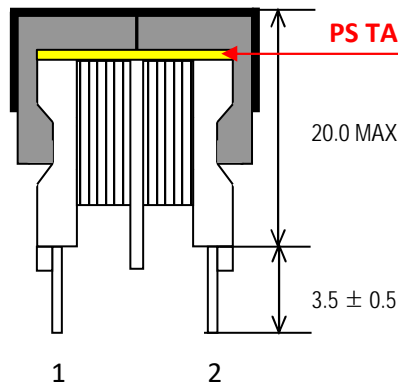
CUSTOMER			
PART NAME	LINE FILTER	MODEL NO.	NSF-103
PART NO.	UU1116-10mH(V-TYPE)	SIZE NO.	UU 1116 - V

1. DIMENSION (UNIT:mm)

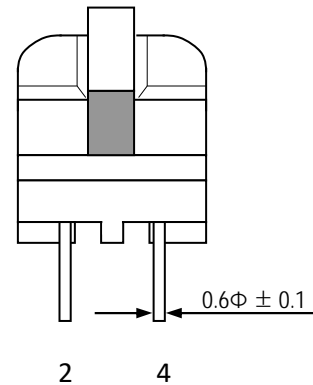
< TOP VIEW >



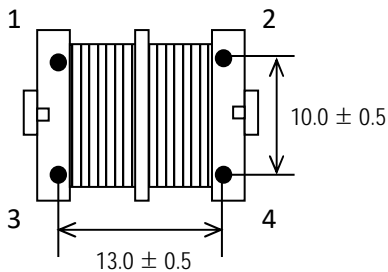
< FRONT VIEW >



< SIDE VIEW >



< BOTTOM VIEW >



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개발실 이기훈 08.08.27	개발실 이상순 08.08.27	개발실 노성복 08.08.27
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PART NAME

LINE FILTER

MODEL NO.

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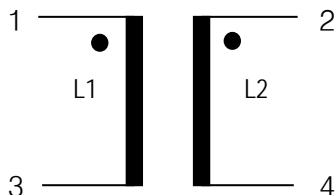
PART NO.

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2. SCHEMATIC DIAGRAM



WINDNG

N.C PIN

REMOVE PIN

3. WINDING SPECIFICATION

WINDING ORDER	COIL	TERMINAL	WIRE	TURNS	WINDING METHOD
1	L1	1 - 3	<div style="border: 1px solid red; padding: 2px; display: inline-block;">REV1</div> UEW 0.35Φ	85± 10 Ts	SOLENOID
2	L2	2 - 4			SOLENOID

4. ELECTRICAL CHARACTERISTICS

NO	ITEM	TERMINAL	SPECIFICATION	REMARKS
1	INDUCTANCE	1 - 3 2 - 4	<div style="border: 1px solid red; padding: 2px; display: inline-block;">REV2</div> 10 mH MIN	UC2878 LCR-METER at 1KHz,1V
2	UNBALANCE	L1 - L2	0.3 mH MAX	
3	WITHSTANDING VOLTAGE	AC 2.0kV, 1MINUTE, 10mA (LINE TO LINE)		
4	INSULATION RESISTANCE	DC 500V, 100M OHM MIN. (LINE TO CORE)		

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08.08.27

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이상순
08.08.27

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5. MATERIAL LIST


REV2

NO	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF MATERIAL	REMARKS
1	CORE	SM120 (UU 1116) R12K (UU 1116) R12K (UU 1116)	SAMWHA ELECTRONICS CO.,LTD. ZIBO TIAN MIN ELECTRONICS CO.,LTD DMEGC MAGNETICS CO.,LTD	
2	BOBBIN	PHENOL 94V-0	CHANG CHUN PLASTICS CO.,LTD. HEXION GMBH.	E59481 E61040
3	SPRING HOLDER	STAINLESS STEEL SUS31	YANTAI SHENGYU ELECTRONICS CO.,LTD.	
4	WIRE	POLYURETHANE UEW 0.35Φ 	YANTAI ROME ELECTRONIC CO.,LTD. CNI Electronics Co Ltd. ZHEJIANG HONGBO TECHNOLOGY CO.,LTD.	E166187 E210918 E221719
5	INSULATION TAPE	POLYESTER TAPE	GUANGDONG RANGELI NEW ENERGY MATERIALS TECHNOLOGY CO.,LTD.	E511186
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD.	E165111
6	VARNISH	T-4260 R-831-*	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO.,LTD.	E228349
			ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO., LTD.	E227128
7	FLUX	LF-715K EF-9301	DUI YUAN TECH(HUI ZHOU) CO.,LTD. ALPHA METAL CO.,LTD.	
	SOLDER	SN99.5% , CU0.5% SN99.3% , CU0.7%	LT MATERIAL CO.,LTD. ALPHA METAL CO.,LTD.	
8	MARKING	LABEL INK	BON MARQUE KOSTIC KOREA MONAMI HITACHI CHEMICAL CO.,LTD.	



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6. UL LIST



BOBBIN (PHENOL)	HEXION GMBH E61040 Postfach 7154 56609 Iserlohn, GERMANY PF 2736(a)(b) Phenolic (PF) "Rutaforn, Bakelite" furnished as pellets, powder, granular material																																																																																																										
	<table border="1"> <thead> <tr> <th colspan="2"></th> <th>Min</th> <th>Flame</th> <th>W</th> <th>A</th> <th>Elec</th> <th colspan="2">Mech</th> <th>H</th> <th>D</th> <th></th> </tr> <tr> <th colspan="2"></th> <th>Thk</th> <th></th> <th></th> <th></th> <th></th> <th colspan="2">R.T.I.</th> <th>Y</th> <th>4</th> <th>C</th> </tr> <tr> <th>Dsg</th> <th>Color</th> <th>mm</th> <th>Class</th> <th>I</th> <th>I</th> <th>Str</th> <th>Imp</th> <th>Str</th> <th>T</th> <th>9</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>PF 2736(a)(b)</td> <td>BK</td> <td>0.46</td> <td>Y-0</td> <td>0</td> <td>0</td> <td>150</td> <td>150</td> <td>150</td> <td>0</td> <td>5</td> <td>3</td> </tr> <tr> <td></td> <td>ALL</td> <td>0.81</td> <td>V-1</td> <td>0</td> <td>2</td> <td>150</td> <td>150</td> <td>150</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>NC,GN,BK</td> <td>0.81</td> <td>V-0</td> <td>0</td> <td>2</td> <td>150</td> <td>150</td> <td>150</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>ALL</td> <td>1.5</td> <td>V-0</td> <td>0</td> <td>2</td> <td>150</td> <td>150</td> <td>150</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td></td> <td>3.0</td> <td>V-0</td> <td>0</td> <td>2</td> <td>150</td> <td>150</td> <td>150</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>(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", "RUTAFORN" and material designation on container, wrapper or finished part.</p>													Min	Flame	W	A	Elec	Mech		H	D				Thk					R.T.I.		Y	4	C	Dsg	Color	mm	Class	I	I	Str	Imp	Str	T	9	T	PF 2736(a)(b)	BK	0.46	Y-0	0	0	150	150	150	0	5	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	-	-	-
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PF 2736(a)(b)	BK	0.46	Y-0	0	0	150	150	150	0	5	3																																																																																																
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	CHANG CHUN PLASTICS CO LTD E59481 7TH FL., 301 SONGKIANG RD, TAIPEI 104 TW T375HF Phenolic Molding Compound (PMC) "LONGLITE" furnished as pellets, granular material, or powder																																																																																																										
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
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CUSTOMER			
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WIRE (UEV)	<p>YANTAI ROME ELECTRONIC CO LTD E166187 DAXINDIAN TOWN, PENGLAI SHANDONG 265612 CN PTHW75, xUEW/130, QA-x/130</p> <table border="1"> <thead> <tr> <th>Mark Designation</th> <th>ANSI Type</th> <th>Temp (° C)</th> <th>Base Coat</th> <th>Top Coat</th> <th>Bond Coat</th> </tr> </thead> <tbody> <tr> <td>PTHW75, xUEW/130, QA-x/130</td> <td>MW 75-C</td> <td>130</td> <td>Polyurethane</td> <td>■</td> <td>■</td> </tr> </tbody> </table> <p>x - Where x may be replaced by 0, 1, 2 or 3 denoting the coating thickness.</p>	Mark Designation	ANSI Type	Temp (° C)	Base Coat	Top Coat	Bond Coat	PTHW75, xUEW/130, QA-x/130	MW 75-C	130	Polyurethane	■	■				
	Mark Designation	ANSI Type	Temp (° C)	Base Coat	Top Coat	Bond Coat											
	PTHW75, xUEW/130, QA-x/130	MW 75-C	130	Polyurethane	■	■											
	<p>CNI Electronics Co Ltd E210918 201 Munnakgongdan-gil Munnak-eup, Wonju-si Gangwon-do 26362 KR UEV</p> <table border="1"> <thead> <tr> <th>Mark Designation</th> <th>ANSI Type</th> <th>Temp (° C)</th> <th>Basecoat</th> <th>Topcoat</th> <th>Bondcoat</th> </tr> </thead> <tbody> <tr> <td rowspan="2">UEV</td> <td>MW 79-C</td> <td>155</td> <td>Polyurethane</td> <td>-</td> <td>-</td> </tr> <tr> <td>MW 75-C</td> <td>130[#]</td> <td>Polyurethane</td> <td>■</td> <td>■</td> </tr> </tbody> </table> <p>[#] -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.</p>	Mark Designation	ANSI Type	Temp (° C)	Basecoat	Topcoat	Bondcoat	UEV	MW 79-C	155	Polyurethane	-	-	MW 75-C	130[#]	Polyurethane	■
Mark Designation	ANSI Type	Temp (° C)	Basecoat	Topcoat	Bondcoat												
UEV	MW 79-C	155	Polyurethane	-	-												
	MW 75-C	130[#]	Polyurethane	■	■												
<p>ZHEJIANG HONGBO TECHNOLOGY CO LTD E221719 Wan Tan Wan Industry Zone, Lianshi Town, HUZHOU, ZHEJIANG 313013 CHINA xUEW/130, QA-x/130, xUEW@/130, QA@-x/130</p> <table border="1"> <thead> <tr> <th>Mark Designation</th> <th>ANSI Type</th> <th>Temp (° C)</th> <th>Base Coat</th> <th>Top Coat</th> <th>Bond Coat</th> </tr> </thead> <tbody> <tr> <td>xUEW/130, QA-x/130, xUEW@/130, QA@-x/130</td> <td>MW 75-C</td> <td>130</td> <td>Polyurethane</td> <td>■</td> <td>■</td> </tr> </tbody> </table> <p>[#] - 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.</p> <p>@ - May be prefixed by LZ signifies magnet wires twisted together.</p> <p>x - Where x may be replaced by 0, 1, 2 or 3 denoting the coating thickness.</p> <p>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.</p>	Mark Designation	ANSI Type	Temp (° C)	Base Coat	Top Coat	Bond Coat	xUEW/130, QA-x/130, xUEW@/130, QA@-x/130	MW 75-C	130	Polyurethane	■	■					
Mark Designation	ANSI Type	Temp (° C)	Base Coat	Top Coat	Bond Coat												
xUEW/130, QA-x/130, xUEW@/130, QA@-x/130	MW 75-C	130	Polyurethane	■	■												

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UU1116-10mH(V-TYPE)

SIZE NO.

UU 1116 - V

* YELLOW CARD *

GUANGDONG KANGLI NEW ENERGY MATERIALS TECHNOLOGY CO LTD. E511186
BUILDING 4, NO.109, YADI SOUTH ROAD, QIAOTOU TOWN, DONGGUAN CITY, GUANDONG CHINA
523000 DONGGUAN, CHINA

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

TAPE
(PS 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+
Polyethylene terephthalate film insulating tapes					
CT+(bXg)	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.

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DESIGN

개발실
이기훈
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VARNISH	ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO LTD E227128 NO. 235 MINGXIN RD, DAQIAO TOWN JIAXING, ZHEJIANG 314006 CHINA R-831*				
	Thermal Class (° C)				
	Yarnish Designation	ANSI Type	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.					
	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD E228349 BEI SHI WUTANG, JIANGSU 215214 CHINA T-4260(a)				
	Thermal Class (° C)				
	Yarnish Designation	ANSI Type	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.					



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DESIGN	CHECK	APPROVAL
개발실 이기훈 08.08.27	개발실 이상순 08.08.27	개발실 노성복 08.08.27
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