



KWANG SUNG
ELECTRONICS H.K.CO.LIMITED



SPECIFICATION FOR APPROVAL

MESSRS : SUH KWANG
MODEL :
ITEM : LINE FILTER
CUSTOMER P/N : U1014-508
CUSTOMER MODEL :
DATE : 2009. 07. 22

APPROVAL		
PREPARE	CHECK	APPROVAL
DATE:		

HEAD OFFICE : **KWANG SUNG ELECTRONICS H.K CO.,LTD.**
UNIT6-9, 13/F., WAH WAI. CENTER, 30-48
AU PUI WAN STREET, FOTAN, SHATIN. NEW TERRITORIES, HONG KONG
TEL : 852-2946-7600 FAX : 852-2602-6490

R&D CENTER : **KWANG SUNG ELECTRONICS H.K CO.,LTD. KOREA BRANCH**
UNIT201, WORLD MERIDIAN VENTURE CENTER #1,
60-24, GASAN-DONG, GEUMCHUN-GU, SEOUL, KOREA 153-801
TEL : 82-2-2108-3590 FAX : 82-2-2108-3553

KOREA FACTORY : **KWANG SUNG ELECTRONICS CO.,LTD.**
108, 4-KA, WONHYO-RO, YONGSAN-GU, SEOUL, KOREA
TEL : 82-2-713-6001/5 FAX : 82-2-716-8283

CHINA FACTORY : **SHEN ZHEN KWANG SUNG ELECTRONICS CO.,LTD.**
SHI TOU SHAN INDUSTRIAL ZONE
ZHUAN CHANG VILLAGE, SHI YAN TOWN,
BAO AN DISTRICT, SHEN ZHEN, GUANG DONG PROVINCE, CHINA
TEL : 86-755-2765-4650 FAX : 86-755-2765-6007



A Name You Can Trust Kwang Sung Electronics.,Co.Ltd.

MESSRS : SUH KWANG

LINE FILTER

DATE : 2009. 07. 22.

KSE NAME : U1014-508

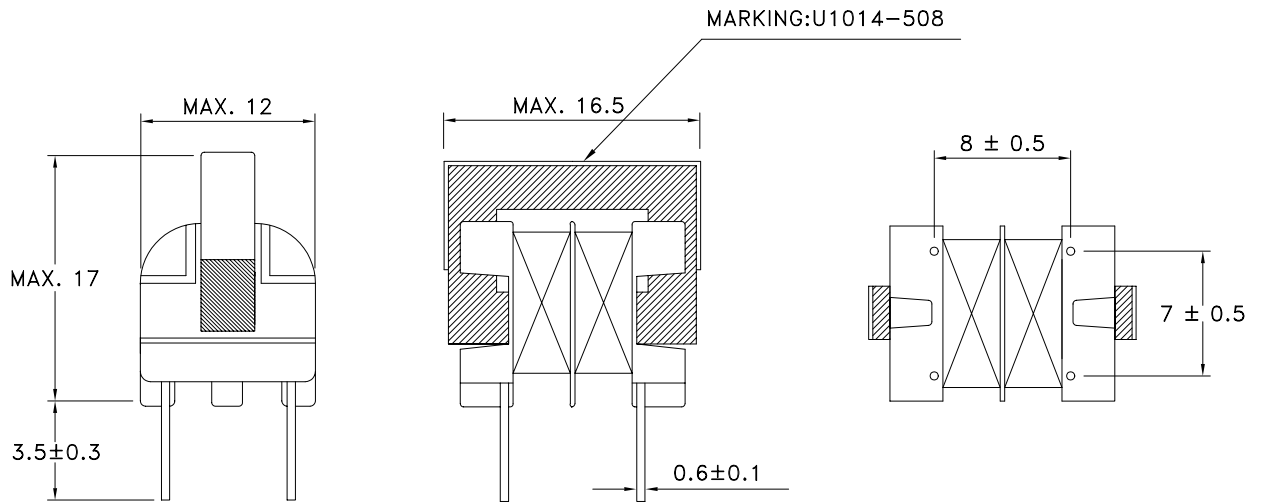
SPECIFICATION

PRODUCT CODE :
9F5

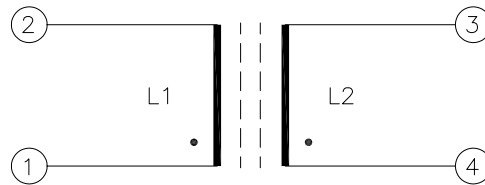
1. ITEM : FILTER LINE (U1014-508)

2. APPEARANCE AND STRUCTURE

2-1. STRUCTURE AND DIMENSION (UNIT:mm)



2-2. WINDING DIAGRAM (BOTTOM VIEW)



2-3. WINDING SPEC.

TERMINAL	WIRE	TURNS
1 - 2	2UEW 0.25φ	60 ±3 Ts
4 - 3	2UEW 0.25φ	60 ±3 Ts

DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
		技術 09. 07. 22 金鎮佑			技術 09. 07. 22 朴鍾奎

MESSRS : SUH KWANG

LINE FILTER

DATE : 2009. 07. 22.

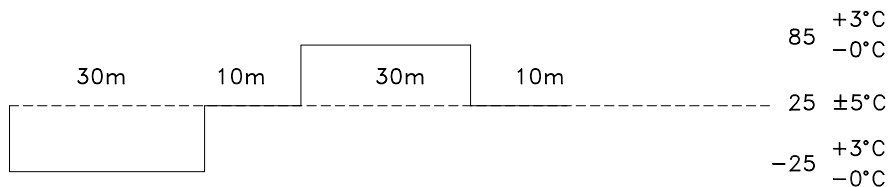
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4. ENVIRONMENTAL CHARACTERISTICS

4-1. TEMPERATURE CYCLING TEST



THE LINE FILTER SHALL BE CONDITIONED FOR 5 CYCLES OF ABOVE CYCLING CONDITION AND THAN REMOVED IN NORMAL ROOM AMBIENT 60 MINUTES AFTER THE PROCEDURE, IT SHALL SATISFY THE ELECTRICAL REQUIREMENTS SPECIFIED IN SECTION 3-6 AND, THERE SHALL NOT BE ANY ABNORMALITIES IN STRUCTURE.

4-2. RESISTANCE SOLDERING HEAT

WHEN LEAD WIRE DIPPED TO $3\pm 1\text{mm}$ FROM BOTTOM OF BOBBIN IN SOLDER OF $250^{\circ}\text{C}\pm 10^{\circ}\text{C}$ AND KEPT 5 ± 1 SECOND.
THE LINE FILTER SHALL BE NO ABNORMALITY

4-3. HUMIDITY RESISTANCE TEST

THE LINE FILTER SHALL BE CONDITIONED FOR 100 MINUTES AT 90 TO 95% RELATIVE HUMIDITY AND $40^{\circ}\text{C}\pm 2^{\circ}\text{C}$, THAN REMOVED IN NORMAL ROOM AMBIENT AT $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, 60 MINUTES AFTER THE ABOVE PROCEDURE, IT SHALL SATISFY THE ELECTRICAL REQUIREMENT SPECIFIED IN SECTION 3.

5. PHYSICS

5-1. VIBRATION TEST

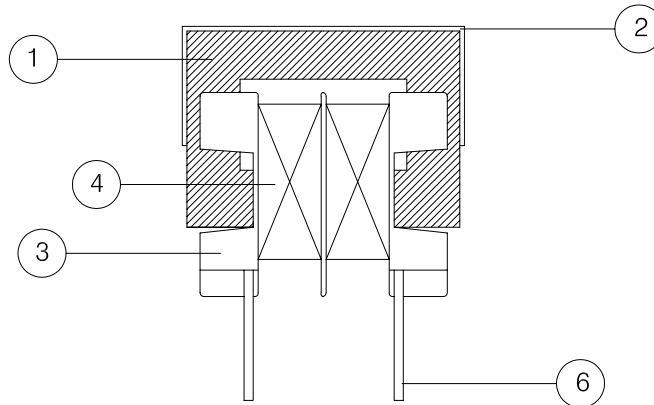
LINE FILTER SHALL BE SOLDERED WITH THE PRINTED BOARD OF 1.6mm THICKNESS AND THEN IT SHALL BE APPLIED WITH THE VIBRATION THAT THE AMPLITUDE IS 1.5mm AND THE FREQUENCY IS 10 TO 55Hz IN THE RIGHT-ANGLED 3 DIRECTIONS EACH FOR 2 HOURS. AFTER ABOVE PROCEDURE, THERE SHALL NOT BE ANY ABNORMALITIES IN ALL REQUIREMENTS.

5-2. TENSILE STRENGTH OF LEAD WIRE

FOR 5 SECONDS APPLYING A LEAD OF 1.0 Kg IN AXIS DIRECTION OF EACH LEAD WIRE. THERE SHALL NOT BE ANY ABNORMALITY.

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6. METERIAL LIST



NO.	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF COMPONENT	UL FILE NO
1	CORE	HL7 HM3A R7K JR7K FH2 OR EQUIV. UU1014	RUYUAN DONGYANGGUANG MAGNETICS MATERIALS CO.,LTD. ISU CERAMICS CO.,LTD. DONG YANG MAGNETIC CO.,LTD. WUXI SPINEL MAGNETICS CO.,LTD. NANJING FINEMAG TECHNOLOGY CO.,LTD OR EQUIV.	
2	CLAMP	UU1014	POONGSAN METAL CO., LTD.	
3	BOBBIN	PHENOL 94V-0, PF2736 V-0, PM8375 94V-0, T-355J	HEXION SPECIALTY CHEMICALS GMBH SUMITOMO BAKELITE CO.,LTD. CHANG CHUN PLASTICS CO.,LTD.	E61040(M) E41429(M) E 59481(S)
4	WIRE	0.25 ϕ (2UEW)	DONG YANG ELECTRONICS IND CO.,LTD. HOILUEN ELECTRICAL CO.,LTD. OR EQUIV.	E102761(N) E164409(S)
5	VARNISH	ES-925-43DA3 SR-337, KR-337	CHEMTECH CO., LTD SEGYE CHEMICAL CO.,LTD.	E 258329 E 257443
6	PIN	SDCP (SOLDER DIPPED COPPER COVER STEEL WIRE) 0.6 ϕ	SAMATRON CO.,LTD.	

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* BOBBIN

HEXION SPECIALTY CHEMICALS GMBH
POSTFACH 7154
58609 ISERLOHN-LETMATHE, GERMANY

E61040

Material Dsg	Color	Min. Thk mm	UL94 Flame Class	Elec	RTI		H W	H A	H V	D 4	C T
					With Imp	Mech W/o str					
PF 2738(a)(b)	BK	0.46	V-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			

(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.

QMFZ2

Plastics - Component

SUMITOMO BAKELITE CO LTD

E41429

Material Dsg	color	MIN Thk mm	Flame Class	H W	H A	Elec	RTI		H T	D 9	C T
							Imp	Mech str			
PM-8910	BK	0.75	V.O	-	-	-	-	-	-	-	I
Phenolic(PF), designated "SUMIKON" furnished as pellets or granular											
PM-2837	BK	0.49	V.O	-	-	150	150	150	-	-	-
PM-8975	BK	0.49	V.O	-	-	150	150	150	-	-	-
Phenolic(PF) designated "Sumikon" furnished as pellets, granular											
PM-0001	BK	0.71	HB	-	-	150	150	150	-	-	-
PM-1200	BK	0.71	HB	-	-	150	150	150	-	-	-
PM-1560	BK	0.61	HB	-	-	150	150	150	-	-	-
PM-200	BK	0.75	HB	-	-	150	150	150	-	-	-
PM-2001	BK	0.75	HB	-	-	150	150	150	-	-	-
		2.8	V.O	-	-	150	150	150	-	-	-
PM-2050	BK	0.50	V.O	-	-	150	150	150	-	-	-
PM-200	RD	1.5	HB	-	-	150	150	150	-	-	-
PM-200	BN,BK	0.47	V.O	-	-	150	150	150	-	-	-

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March 4, 1994

Component-Plastics

CHANG CHUN PLASTICS CO LTD

E59481 (S)

Material Dsg	Color	Min. Thk mm	UL94 Flame Class	H W	H A	Elec	RTI		H T	D 9	C T
							Imp	Mech str			
T-355J	BK	0.62	94V-0	150	150	150	1	0	2	6	3
		0.80	94V-0	150	150	150	1	0	2	6	3
T359J	BK,BN	0.79	94HB	150	150	150	1	0	4	7	4
		1.57	94HB	150	150	150	1	0	4	7	4
		3.17	94HB	150	150	150	0	0	4	7	4
T373J	BK,BN	1.00	94V-1	150	150	150	2	0	3	6	4
	NC	1.00	94V-0	150	150	150	2	0	3	6	4
	(a)	2.00	94V-0	150	150	150	1	0	3	6	4
T375J	BK,BN	0.79	94V-0	150	150	150	1	0	4	5	4
		1.58	94V-0	150	150	150	0	0	4	5	4
		3.17	94V-0	150	150	150	0	0	4	5	4
T377J	BK	0.79	94HB	150	150	150	2	0	4	7	4
		1.58	94HB	150	150	150	1	0	4	7	4
		3.17	94HB	150	150	150	0	0	4	7	4

Report: January 6, 1976.

Replaces E59481C dated February 7, 1989.

262854001

N7047

Underwriters Laboratories Inc.®

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D11/0018965

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UL FILE

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9F5

* WIRE

DONG YANG ELECTRONICS IND CO LTD E102761 (N)
660-1 BANWOL-RI TAIAN-EUB Hwasung-Gun,
KYONGGI-DO 445-970 KOREA

Mtl Dsg	Coat Typ		ANSI Type	TI
	BC	OC		
AI-EIW	Polyester-imide	Polyamide-imide	MW35	200
EIW	Polyester-imide		MW30	180
NY-EIW	Polyester-amide-imide	Polyamide	MW76	180
NY-PEW	Polyester	Polyamide	MW24	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW28	130
UEW	Polyurethane	—	MW75	130

Marking: Company name or "E102761" and material designation or marked designation on package or reel and Recognized Component Mark.

OBMW2 January 29, 1999
Component - Magnet Wire

HOI LUEN ELECTRICAL MFR CO LTD E164409
8TH FL, UNIT 1 HOI LUEN IND CENTRE 55 HOI YUEN RD, BLK
B, KWUN TONG KOWLOON HONG KONG (A card)

Mtl Dsg	Coating Type		ANSI Typ	TI
	BC	TC		
2UEW	Polyurethane	—	MW75-C	130
PEW	Polyester	—	MW-5C	155
UEW	Polyurethane	—	MW28-C	130
EIW	Polyester-imide	—	MW30-C	180

Reports: August 8, 1995; February 2, 1998; August 8, 1995; January 22, 1999.

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Underwriters Laboratories Inc.®

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195

* VARNISH

CHEM TECH CO LTD E258329
PYONGTACK-INDUSTRIAL COMPLEX 538-6 SEGYO DONG
PYONGTACK-SHI, KYUONGGI-DO 450-100 REPUBLIC OF KOREA

Varnish Dsg	ANSI Magnet Wire Type	Varnish Thermal Class C		
		TP	HC	CE
ES925-43D#	MW75	130	130	-

- May be followed by 1 or 2 suffix numeric and /or alpha characters to denote viscosity change accomplished via solvents due to production tolerance.

Marking: Company name and varnish designation on shipping container.

SE KYE CHEMICAL CO LTD E257443
360 GUIJEON-RI, TONGJIN-EUP
KIMPO-SI, KYUNGGI-DO 415-862 REPUBLIC OF KOREA

Varnish Dsg	ANSI Magnet Wire Type	Varnish Thermal Class C		
		TP	HC	CE
SR-337(#)	MW75	130	130	-

- May be followed by 1 or 2 suffix numeric and /or alpha characters to denote viscosity change accomplished via solvents due to production tolerance.

Marking: Company name and varnish designation on shipping container.