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會社

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KWANG SUNG ELECTRONICS



# SPECIFICATION FOR APPROVAL

MESSRS : SUH KSANG  
MODEL NO. :  
ITEM :SK-1116A1  
DATE : 2008. 01. 24

APPROVED BY

HEAD OFFICE : KWANG SUNG ELECTRONICS CO.,LTD.  
108, 4-KA, WONHYO-RO, YONGSAN-KU, SEOUL, KOREA  
TEL : 82-2-713-6001 FAX : 82-2-712-8910

R&D CENTER : KWANG SUNG ELECTRONICS H/K CO.,LTD. KOREA BRANCH  
201, WORLD VENTURE TOWN 60-24, GASAN-DONG, GEUMCHUN-GU, SEOUL, KOREA  
TEL : 82-2-2108-3590, 3595 FAX : 82-2-2108-3535

H.K OFFICE : KWANG SUNG ELECTRONICS H.K CO.,LTD.  
UNIT6-9, 13/F, WAH WAI IND. CENTRE, 38-40.  
AU PUI WAN ST., FOTAN, N.T., HONG KONG  
TEL : 852-2602-6609 FAX : 852-2602-6490

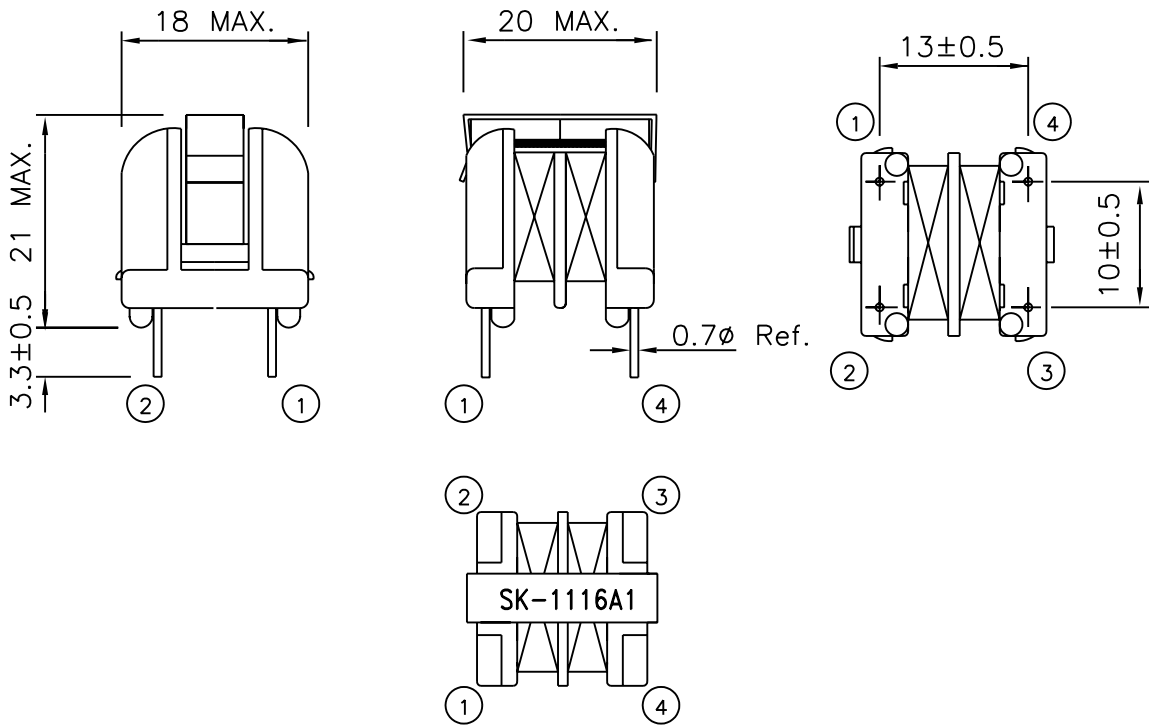
CHINA FACTORY : SHEN ZHEN KWANG SUNG ELECTRONICS CO.,LTD.  
BULDING #8,5TH INDUSTRIAL ZONE, SHI YAN TOWN, BAO AN, SHEN-ZHEN, CHINA  
TEL : 86-755-2763-3001 FAX : 86-755-2763-3530



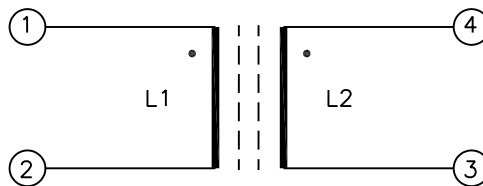
A Name You Can Trust Kwang Sung Electronics.,Co.Ltd.

MESSRS : SUHKWANG	LINE FILTER SPECIFICATION	DATE : 2008. 01. 28.
KSE NAME : SK-1116A1		PRODUCT CODE : 9F5

- ITEM : FILTER LINE (SK-1116A1)
- APPEARANCE AND STRUCTURE



2-2. WINDING DIAGRAM (BOTTOM VIEW)



2-3. WINDING SPEC.

TERMINAL	WIRE	TURNS
1 - 2	2UEW 0.35φ	85Ts Ref
4 - 3	2UEW 0.35φ	85Ts Ref

DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
		技術 08.01.28 金賢撤	技術 08.01.28 金會浣	技術 08.01.28 金會浣	技術 08.01.28 張東俊

MESSRS : SUHKWANG	LINE FILTER	DATE : 2008. 01. 28.
KSE NAME : SK-1116A1	SPECIFICATION	PRODUCT CODE : 9F5

### 3. ELECTRICAL SPECIFICATION

3-1. INDUCTANCE  
EACH 8.0mH MIN. L1 AND L2  
at 1KHz, 1V, 25°C±5°C

3-2. INDUCTANCE(BALANCE)  
|L1-L2|= 0.5mH MAX. L1 AND L2

3-3. D.C RESISTANCE  
EACH 1.0ohm MAX. L1 AND L2

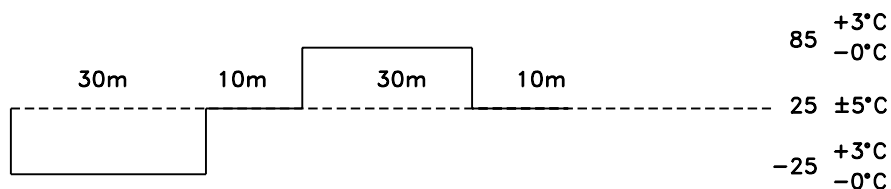
3-4. WITHSTANDING VOLTAGE  
L1 COIL TO L2 COIL : AC1.0KV(rms) 1 MINUTE.

3-5. INSULATION RESISTANCE  
L1 COIL TO L2 COIL : 100Mohm MIN. APPLIED 500V

MESSRS : SUHKWANG	LINE FILTER	DATE : 2008. 01. 28.
KSE NAME : SK-1116A1	SPECIFICATION	PRODUCT CODE : 9F5

## 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  $5\pm 1$  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

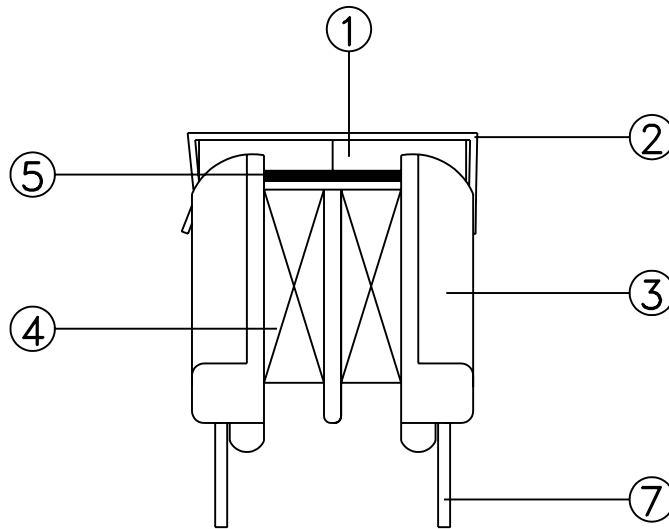
LINE FILTER SHALL BE SOLDERED WITH THE PRINTED BOARD OF 1.6mm THICKNESS AND THEN IT SHALL BE APPLIED WITH THE VIBRATION THAT THE AMPLITUDE IS 1.5mm AND THE FREQUENCY IS 10 TO 55Hz IN THE RIGHT-ANGLED 3 DIRECTIONS EACH FOR 2 HOURS. AFTER ABOVE PROCEDURE, THERE SHALL NOT BE ANY ABNORMALITIES IN ALL REQUIREMENTS.

### 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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KSE NAME : SK-1116A1		PRODUCT CODE : 9F5

## 6. METERIAL LIST



NO.	COMPONENT	NAME OF MATERIAL	MANUFACTURER OF COMPONENT	UL FILE NO
1	CORE	R7K TL7 SM-70S    UU1116 OR EQUIV.	DONG YANG MAGNETIC CO.,LTD. TIAN TONG ELECTRONIC CO.,LTD. SAM WHA ELECTRONIC CO.,LTD. OR EQUIV.	
2	CLAMP	UU1116	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	0.35 $\phi$ (2UEW)	DONG YANG ELECTRONICS IND CO.,LTD. HOILUEN ELECTRICAL CO.,LTD.	E102761(N) E164409(S)
5	INSULATION TAPE	T=25u    W=5.5mm	DUCK SUNG HITECH CO.,LTD. OR EQUEV.	E105147(S)
6	VARNISH	VARNISH ES-925-43DA3 OR EQUIV.	CHEMTECH CO., LTD OR EQUIV.	
7	TERMINAL	SDCP (SOLDER DIPPED COPPER COVER STEEL WIRE) 0.7 $\phi$	SAMATRON CO.,LTD.	

MESSRS : SUH KWANG

# UL FILE

DATE : 2008. 01. 24.

KSE NAME : SK-1116A1

PRODUCT CODE :  
9T5

## \* 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 I	H A I	H V T R	D 4 5	C T I	
					With imp	Mech W/o str						
PM 2736(a)(b)	BK	0.46	V-0	-	-	150	150	150	150	150	0	5 3
	ALL	0.81	V-1	0	2	150	150	150	150	150		
	NC,GN,BK	0.81	V-0	0	2	150	150	150	150	150		
	ALL	1.5	V-0	0	2	150	150	150	150	150		
		3.0	V-0	0	2	150	150	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.

### QMF22

Plastics - Component

SUMITOMO BAKELITE CO LTD

E51429

Material Dsg	color	MIN Thk mm	Flame Class	H W I	H A I	Elec	RTI		H V T R	D 4 5	C T I
							With imp	Mech str			
PM-8910	BK	0.75	V.O	-	-	-	-	-	-	-	-
Phenolic(PF), designated "SUMIKON" furnished as pellets or granular											
PM-2837	BK	0.49	V.O	-	-	150	150	150	-	-	-
PM-8376	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-1500	BK	0.81	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-3050	BK	0.50	V.O	-	-	150	150	150	-	-	-
PM-300	RD	1.5	HB	-	-	150	150	150	-	-	-
PM-300	BN,BK	0.47	V.O	-	-	150	150	150	-	-	-

### QMF22

March 4, 1994

Component-Plastics

CHANG CHUN PLASTICS CO LTD

E59481 (S)

Material Dsg	Color	Thk mm	Flame Class	H W I	H A I	Elec	RTI		H V T R	D 4 5	C T I
							With 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
		1.00	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.®

(Cont. on C1 card)  
D11/0018965

MESSRS : SUH KWANG	<b>UL FILE</b>	DATE : 2008. 01. 24.
KSE NAME : SK-1114A1		PRODUCT CODE : 9T5

\* 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					
PM 2736(a)(b)	BK	0.46	V-0	-	-	150	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.

QMF22

Plastics - Component

SUMITOMO BAKELITE CO LTD

E51429

Material Dsg	color	MIN Thk mm	Flame Class	H W	H A	Elec	RTI		H V	D 4	C T
							Imp	Mech str			
PM-8910	BK	0.75	V.O	-	-	-	-	-	-	-	1
	Phenolic(PF), designated "SUMIKON" furnished as pellets or granular										
PM-2837	BK	0.49	V.O	-	-	150	150	150	-	-	-
PM-8376	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-1500	BK	0.81	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	-	-	-

QMF22

March 4, 1994

Component-Plastics

CHANG CHUN PLASTICS CO LTD

E59481 (S)

Material Dsg	Color	Thk	Flame Class	H W	H A	Elec	RTI		H V	D 4	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
		1.00	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.  
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