

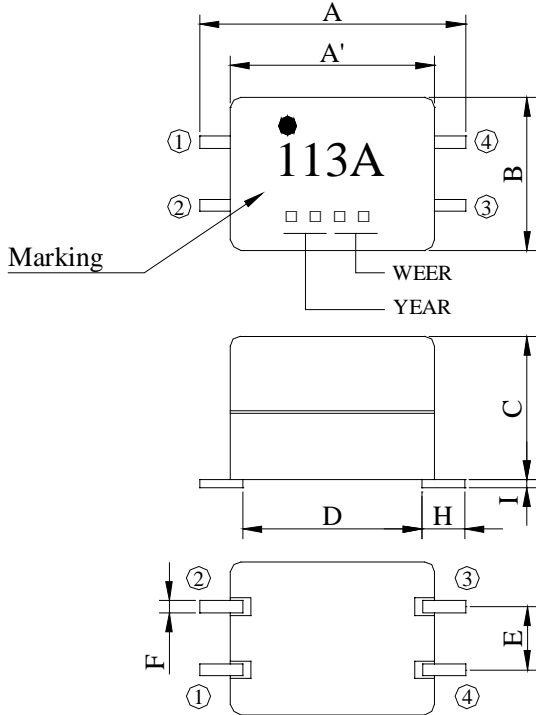
SPECIFICATION FOR APPROVAL

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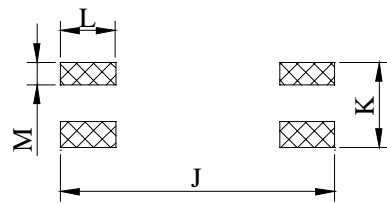
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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0904□ □ □ □ L□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

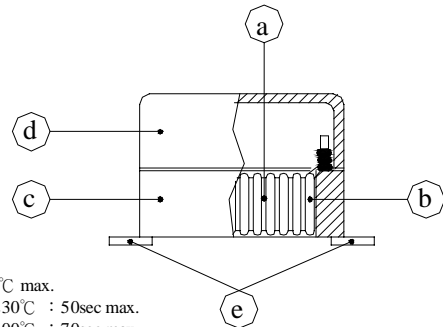
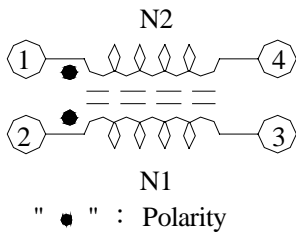


A	: 9.20±0.3	m/m
A'	: 7.10 typ.	m/m
B	: 6.00±0.3	m/m
C	: 5.00±0.3	m/m
D	: 5.32 typ.	m/m
E	: 2.49 typ.	m/m
F	: 0.60 typ.	m/m
H	: 1.92 typ.	m/m
I	: 0.25 typ.	m/m
J	: 9.60 ref.	m/m
K	: 3.40 ref.	m/m
L	: 2.20 ref.	m/m
M	: 1.00 ref.	m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



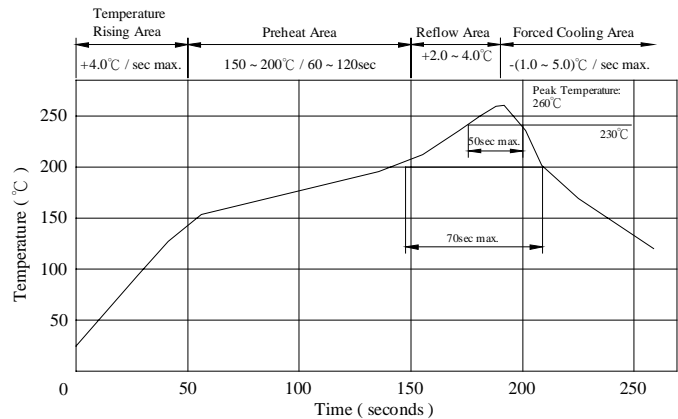
III . MATERIAL DESCRIPTION :

- a . Core : Ferrite core
- b . Wire : Enamelled copper wire
- c . Base : PPHS (UL94V-0)
- d . Case : PPHS (UL94V-0)
- e . Terminal : Cu/Ni/Sn
- f . Adhesive : Epoxy resin

Peak Temp : 260°C max.
 Max time above 230°C : 50sec max.
 Max time above 200°C : 70sec max.

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 30°C max. at rated current
- b . Storage temp. : -40°C ---- +135°C
- c . Operating temp. : -40°C ---- +135°C
(Temp. rise included)
- d . Resistance to solder heat : 260°C. 10 secs.



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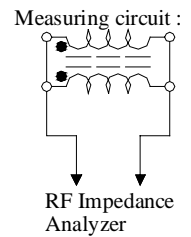
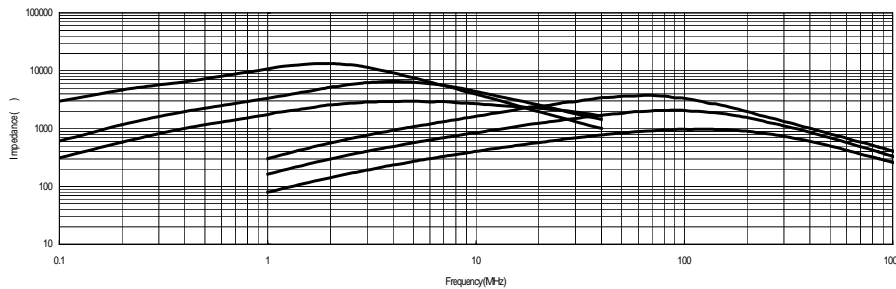
V . ELECTRICAL CHARACTERISTICS :

DWG No.	L (1-4) @ 100KHz, 0.1 Vrms (μH)	LL (1-4) @ 100KHz, 0.1 Vrms typ. (2-3 short)	RDC(Winding) (Ω) max.	Rated Current max.	Winding	Marking
SF0904110YL□	11.0±25%	0.05 uH	0.12	0.5 A	Bifilar	● 113A
SF0904250YL□	25.0±25%	1.50 uH	0.20	0.5 A	Sector	● 253A
SF0904510YL□	51.0±25%	2.00 uH	0.30	0.5 A	Sector	● 513A
SF0904471YL□	470.0±25%	0.28 uH	0.28	0.5 A	Bifilar	● 474A
SF0904102YL□	1000.0±25%	0.29 uH	0.40	0.5 A	Bifilar	● 105A
SF0904472YL□	4700.0±25%	0.30 mH	0.70	0.2 A	Bifilar	● 475A

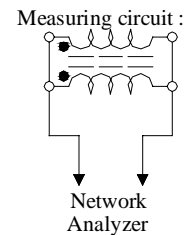
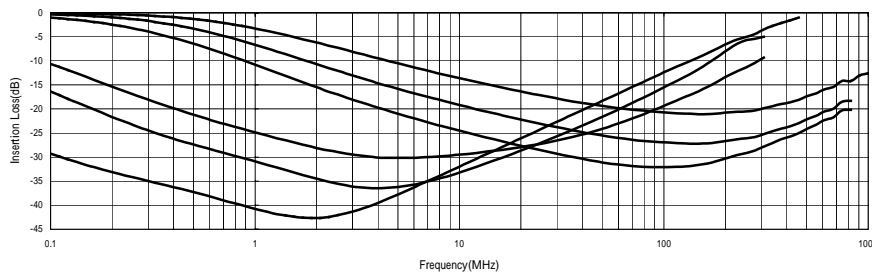
- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel
- 2). Rated voltage 80 Vdc / 42 Vac
- 3). Hi-Pot (N-N) : 250 Vac / 60 Hz , 3 mA / 1sec.

VI . CHARACTERISTICS CURVE :

IMPEDANCE VS. FREQUENCY



INSERTION LOSS VS. FREQUENCY



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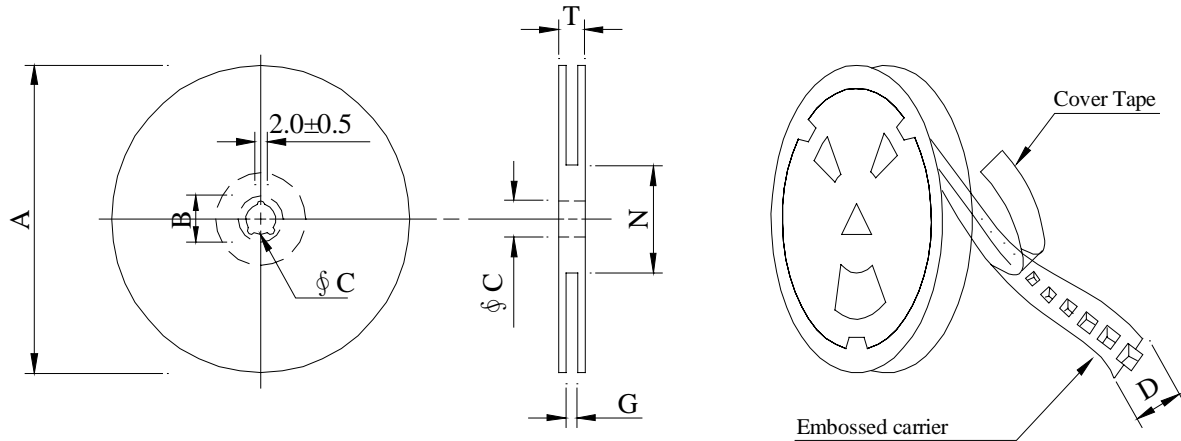
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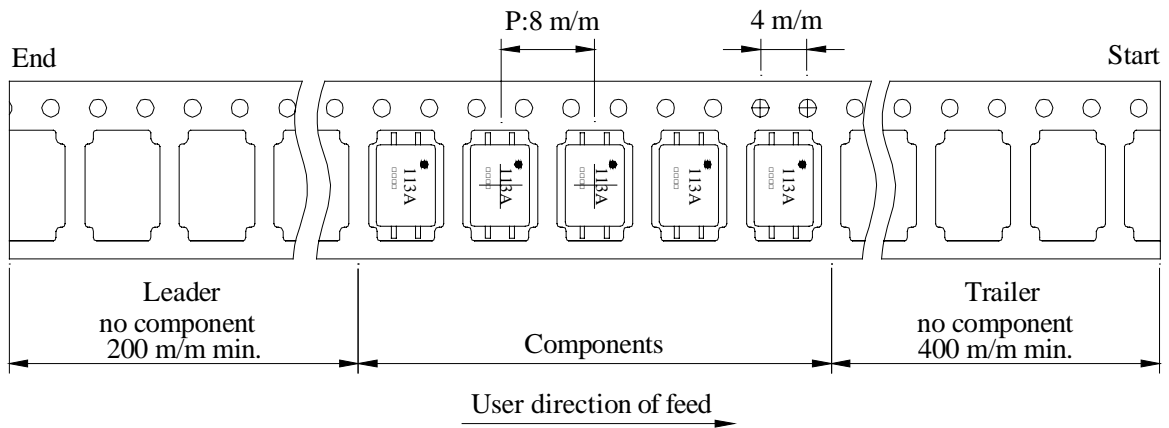
PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0904□□□□L□
		ABC'S ITEM NO.	

VII . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	22.4

(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SF0904	1,500	750	13 - 16	9,000	9.8	40 x 40 x 24

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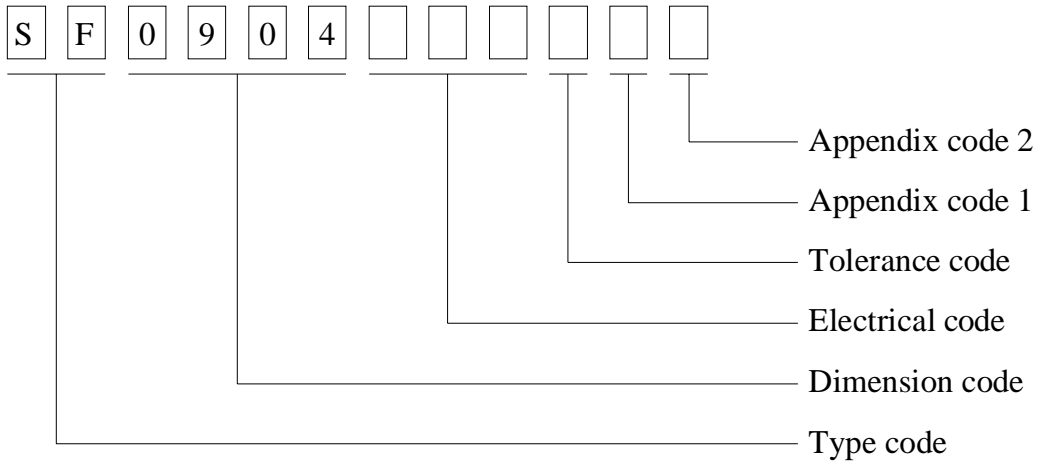
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VIII . DWG EXPRESSION :



- Appendix code 1 : S : Standard products
 A~K , M~R , T~Z : Special products
 L : Standard Lead Free products
 1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner Package	Inner Package Q'TY	Remark
A	Empty	Empty	
B	T / R (Reel Package)	1500 pcs	

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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0904□□□□L□
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IX . RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25°C for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;">-25±2 °C 30 minutes</td> </tr> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;">85±2 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 °C 30 minutes	Room temp. 15 minutes	→	85±2 °C 30 minutes
Room temp. 15 minutes	→	-25±2 °C 30 minutes						
Room temp. 15 minutes	→	85±2 °C 30 minutes						
Humidity Resistance test		Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test		Temperature : 80±2°C Applied current : Per spec. Time : 500 hours						

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X . UL CARD :

OBMW2 September 8, 2000
Magnet Wire-Component

JUNG SHING WIRE CO LTD E174837
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	BC	Coat Typ	ANSI Type	Temp Class
AIW	---	Polyamideimide	---	MW81-C	220
CFUEWB	---	Polyurethane	---	MW75C	130
EIAIW	---	Polyesterimide	Polyamideimide	MW35C	200
EILOCKY	---	Polyesterimide	Polyamide	---	180
EILOCKW	---	Polyesterimide	Modified Epoxy	---	200
EIW	---	Polyesterimide	---	---	220
EIW-2	---	Polyesterimide	---	MW74-C	200
FL.EILOCKY	---	Modified Polyester	Polyamide	---	155
LSFFW	---	Polyurethane	---	MW79-C	155
LSUEW	---	Polyurethane	---	---	130
PEW	---	Polyester	---	---	155
PEY	---	Polyester	Nylon	MW24-C	155
SF.FLW	---	Modified Polyester	---	MW26C	155
SF.EIW	---	Polyesterimide	---	MW77C	180
SF.BY@	---	Modified Polyester	Nylon	MW27-C	155
SF.FLY@	---	Modified Polyester	Nylon	MW27-C	155
SF.BLOCKBS	---	Modified Polyester	Modified Polyamide	---	155
SF.EILOCKY#	---	Polyesterimide	Polyamide	---	180
SF.EILOCKBS	---	Polyesterimide	Modified Polyamide	---	180
SF.BW@	---	Modified Polyester	---	MW26C	155
SFFW	---	Polyurethane	---	MW79	155

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Mtl Dsg	Mark Dsg	BC	Coat Typ	ANSI Type	Temp Class
SFFY	---	Polyurethane	Polyamide	MW80C	155
UEW-1	---	Polyurethane	---	MW2-C	105
UEW-2	---	Polyurethane	---	---	130
UEW-4	---	Polyurethane	---	MW75C	130
UEY	---	Polyurethane	Nylon	MW28-C	130
UEY-2	---	Polyurethane	Polyamide	MW28-C	130

@ - May be suffixed by LZ; # - May be suffixed by LZ, EL or LZI.
LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks JSW or 榮星電線 , material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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September 8, 2000

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QMFZ2

Component-Plastics

PHILLIPS PETROLEUM CO

**PLASTICS TECHNICAL CENTER. BARTLESVILLE OK
OK 74004**

E54700 (N)

(A card)

Mti Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI		H W I	H A I	H V T R	D 4 9 5	C T I
					with Imp	w/o Imp					
Polyphenylene sulfide (PPHS) glass reinforced, designated "RYTON", furnished in the form of pellets											
R-4	NC	0.38	94V-0	50	50	50					
		0.71	94V-0	200	200	200	4	1			
		1.47	94V-0	220	200	220	0	0			
		1.73	94-5V	220	200	220					
		3.05	94V-0,	220	200	220	0	0	4	7	4
			94-5V								
		6.10	94V-0,	220	200	220	0	0			
			94-5V								
R-7	NC	0.71	94V-0	200	200	200	1	0			
R-7 02	BK	1.47	94V-0	220	220	220	1	0			
R-7 03	TN	3.05	94V-0	220	220	220	1	0	0	5	3
		6.10	94V-0	220	220	220					

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