

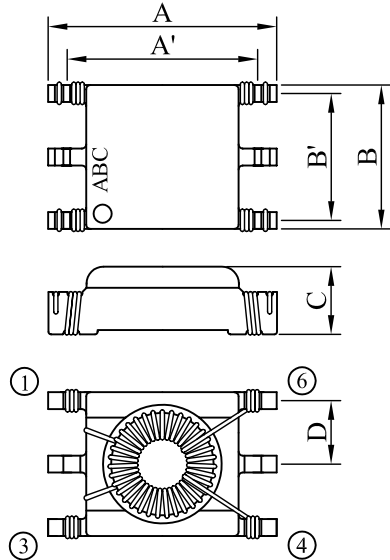
SPECIFICATION FOR APPROVAL

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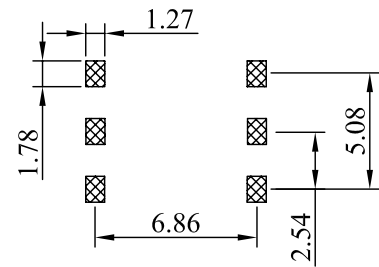
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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0903□□□Y2B-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

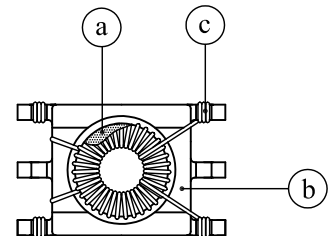
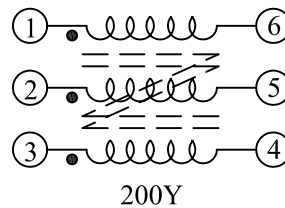
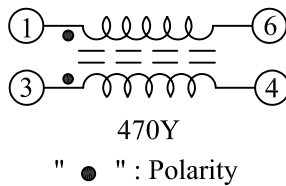


- A : 9.20 max. m / m
- A' : 7.24 typ. m / m
- B : 6.60 max. m / m
- B' : 5.08 typ. m / m
- C : 2.50 max. m / m
- D : 2.54 typ. m / m



(PCB Pattern)

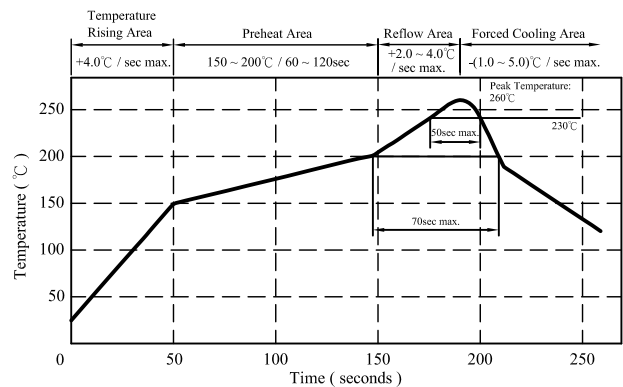
II . SCHEMATIC DIAGRAM :



III . MATERIALS :

- a . Core : Ferrite toroidal core
- b . Base : Phenolic
- c . Wire : Enamelled copper wire (class F)
- d . Terminal : Cu/Sn
- e . Remark : Products comply with RoHS' requirements

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



IV . GENERAL SPECIFICATION :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+105°C
- c . Resistance to solder heat : 260°C .10 secs.

V . ELECTRICAL CHARACTERISTICS :

Dwg. No.	L (uH) 100K/0.1V	LL (uH) 100K/0.02V	C (pF) 100K/0.02V	RDC (Ω) MAX.	Turns Ratio	Insertion Loss		Impedance (z)		HI-POT N-N
						Freq. range	dB	Freq. range	min (Ω)	
SF0903470Y2B-□□□	47.0 min.	0.18 ⁺⁰	20 ⁺⁰	0.4	1:1	1~100 MHz	20 ⁻⁰	10~ 30 MHz	1000	500 Vac 60 Hz 1 mA 1 min.
SF0903200Y2B-□□□	20.0 min.	0.10 ⁺⁰	18 ⁺⁰	0.4	1:1:1	30~300 MHz	20 ⁻⁰	30~100 MHz	800	

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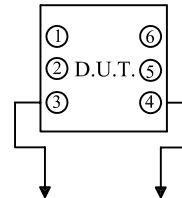
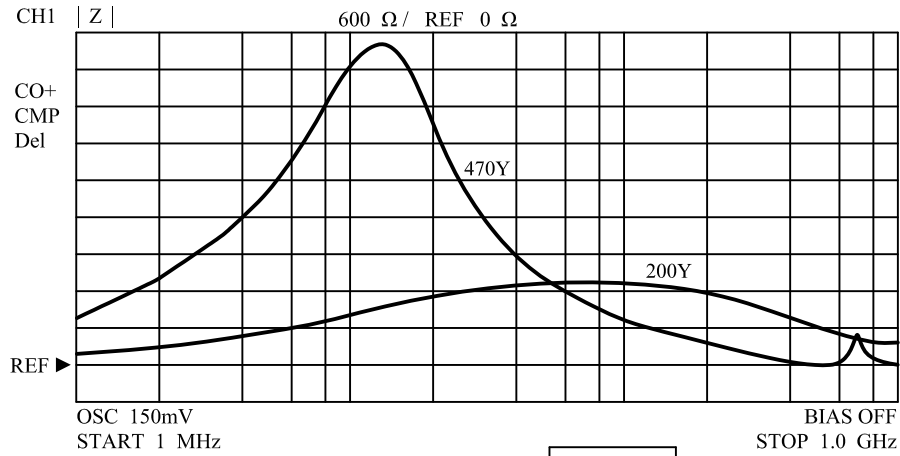
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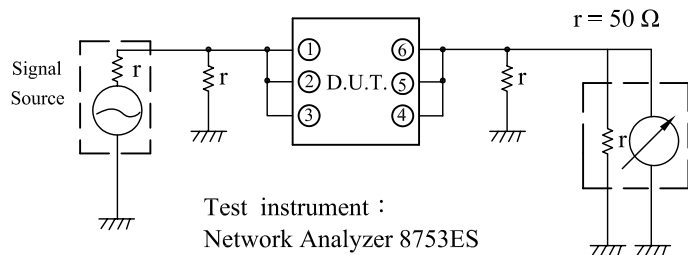
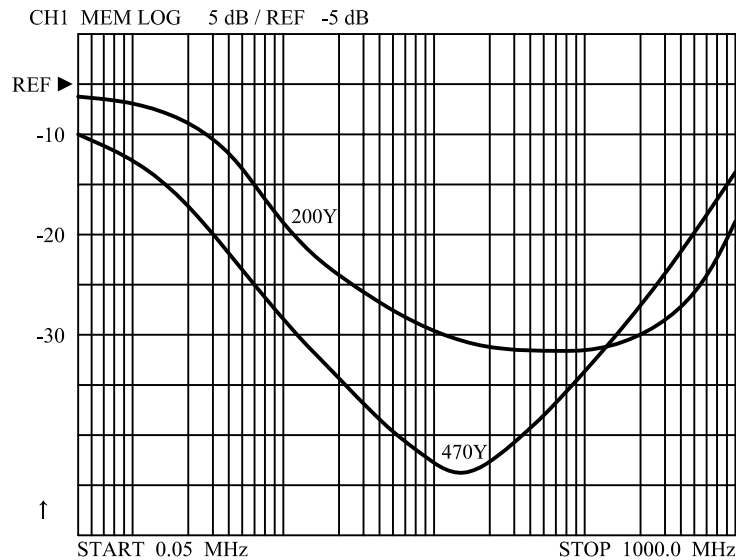
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VI . IMPEDANCE VS FREQUENCY :



Test instrument :
RF Impedance Analyzer HP4291A

VII . INSERTION LOSS CURVE :



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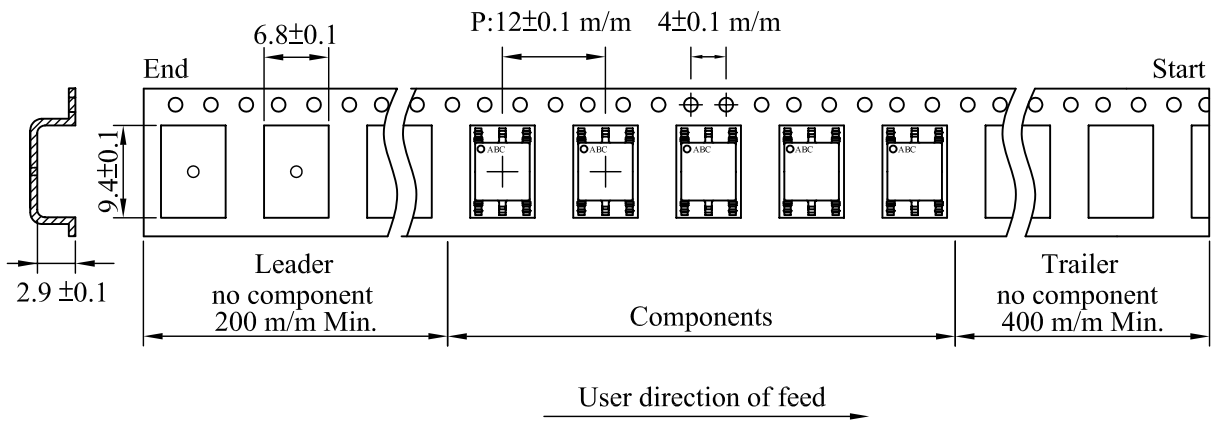
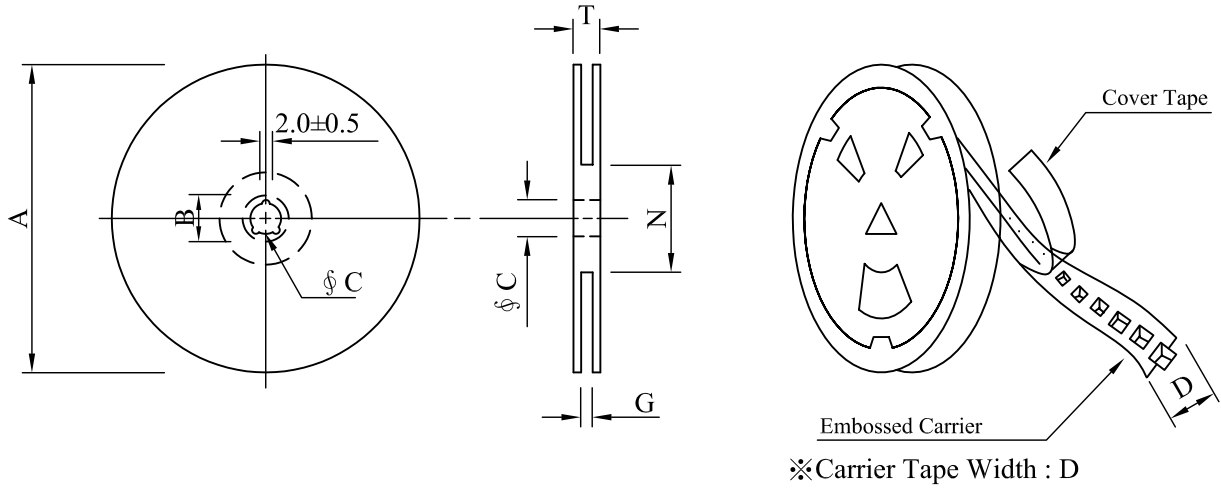
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VIII . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions (EIA-481 Standard)

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13 ^{+0.5} _{-0.2}	16	18 ⁺⁰	50 ⁻⁰	22.4 ⁻⁰

(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)
SF0903	1,500	480	13 - 16	9,000	5.8	40 x 40 x 24

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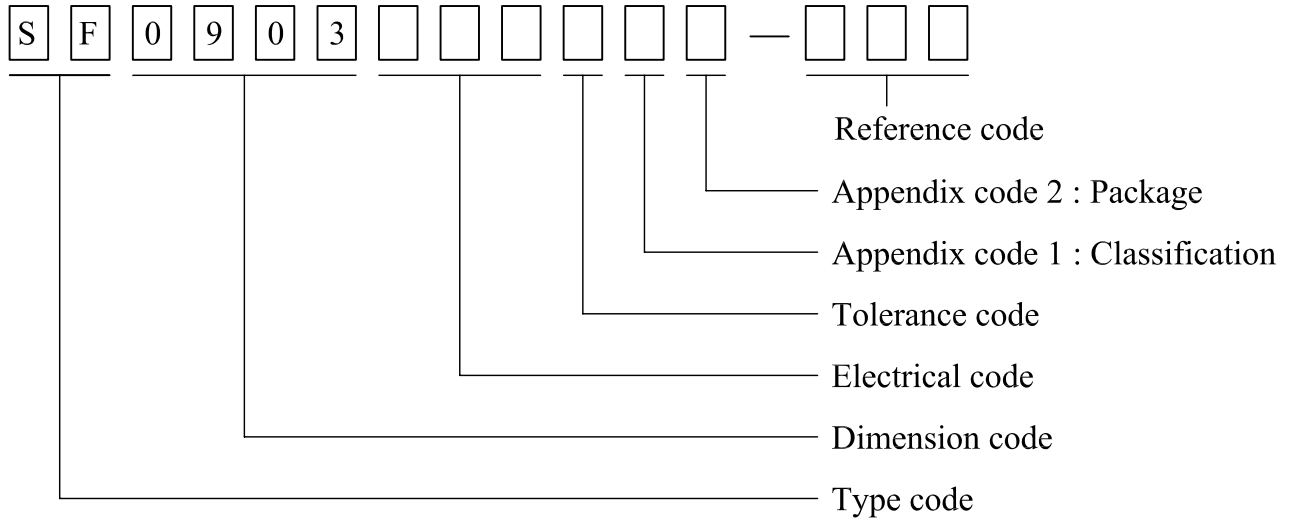
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IX . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

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

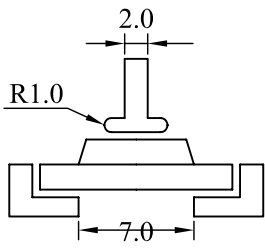
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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0903□□□Y2B-□□□
		ABC'S ITEM NO.	

X . 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-collapse: collapse;"> <tr> <td style="text-align: center;">Room temp.</td> <td style="text-align: center;">—————></td> <td style="text-align: center;">-25±2 °C</td> </tr> <tr> <td style="text-align: center;">15 minutes</td> <td></td> <td style="text-align: center;">30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp.</td> <td style="text-align: center;">—————></td> <td style="text-align: center;">85±2 °C</td> </tr> <tr> <td style="text-align: center;">15 minutes</td> <td></td> <td style="text-align: center;">30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp.	—————>	-25±2 °C	15 minutes		30 minutes	Room temp.	—————>	85±2 °C	15 minutes		30 minutes
Room temp.		—————>	-25±2 °C											
15 minutes			30 minutes											
Room temp.		—————>	85±2 °C											
15 minutes		30 minutes												
Humidity Resistance test	Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours													
High temp. Resistance test	Temperature : 85±2°C Applied current : Per spec. Time : 500 hours													
Bending strength		The base shall not be damaged by the forces applied on the 1.5Kgf min (Terminal one by one)												

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		ABC'S ITEM NO.	

X I . 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	OC	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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A not-for-profit organization
dedicated to public safety and
committed to quality service

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	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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OBMW2/E174837
September 8, 2000

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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0903□□□Y2B-□□□
		ABC'S ITEM NO.	

QMFZ2		January 15, 1991									
Component-Plastics											
SUMITOMO BAKELITE CO LTD											
										E41429 (M)	
(11-cont. from I card)											
PM-9630	BK	0.40	94V-0	150	150	150	—	—	—	—	—
		0.51	94V-0	150	150	150	0	0	—	—	—
		3.18	94V-0	150	150	150	0	1	0	4	3
PM-8315	BK	0.50	94V-0	150	150	150	3	0	0	—	—
PM-8315J	BN	0.71	94V-0	150	150	150	2	0	0	—	—
		1.47	94V-0	150	150	150	0	2	0	—	—
		3.05	94V-0	150	150	150	0	1	0	5	4
		6.10	94V-0	150	150	150	0	1	0	5	4
PM-8315K	BK	0.78	94V-1	150	150	150	—	—	—	—	—
		1.52	94V-0	150	150	150	—	—	—	—	—
PM-8320J	BK	0.71	94HB	150	150	150	—	—	—	—	—
PM-8330	BK	0.71	94V-1	150	150	150	—	—	—	—	—
		1.57	94V-0	150	150	150	—	—	—	—	—
PM-8400	BK	0.71	94HB	150	150	150	—	—	—	—	—
PM-9830	BK	0.69	94V-0	150	150	150	0	0	—	—	—
		3.18	94V-0	150	150	150	0	0	0	4	3

Reports: March 29, 1985: May 14, 1974: September 16, 1971: September 16, 1971:
September 16, 1971: September 16, 1971: March 29, 1985.

Replaces E4142911 dated February 28, 1990. (Cont. on J card)
683540014 N7047 Underwriters Laboratories Inc. ® D11/0043416