

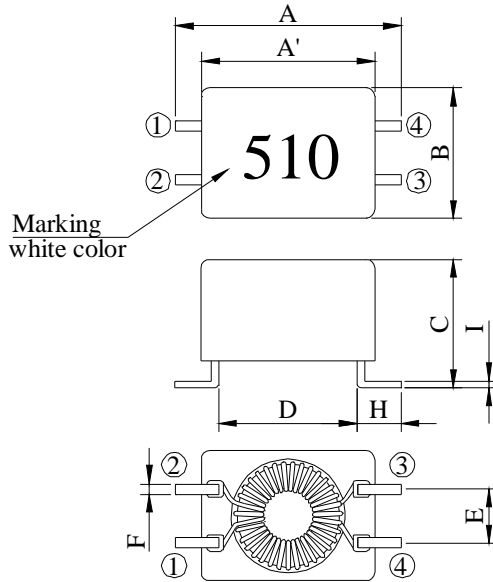
SPECIFICATION FOR APPROVAL

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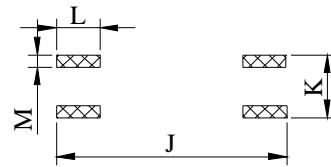
PAGE : 1

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

I . CONFIGURATION & DIMENSIONS :

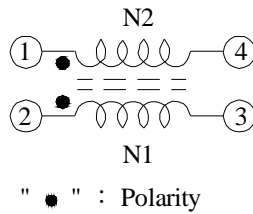


A	: 9.00±0.3	m/m
A'	: 7.30 typ.	m/m
B	: 5.40±0.2	m/m
C	: 4.70±0.15	m/m
D	: 5.50 typ.	m/m
E	: 2.54 typ.	m/m
F	: 0.50 typ.	m/m
H	: 1.75 typ.	m/m
I	: 0.30 typ.	m/m
J	: 9.60 ref.	m/m
K	: 3.70 ref.	m/m
L	: 2.20 ref.	m/m
M	: 1.20 ref.	m/m



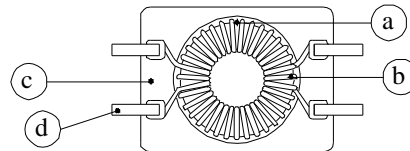
(PCB Pattern)

II . SCHEMATIC DIAGRAM :



III . MATERIAL DESCRIPTION :

- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (Class F)
- c . Base : Phenolic base
- d . Terminal : Cu / Ni / Sn
Ni plating 1---3 um
Sn plating 7 um min. after soldering
- e . Adhesive : Epoxy resin
- f . Remark : Products comply with RoHS' requirements



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
(included Temp. rise)
- d . Resistance to solder heat : 260°C. 10 secs.

AR-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE : 2

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

V . ELECTRICAL CHARACTERISTICS :

DWG No.	L (1-4) @ 100KHz,0.1 Vrms (μH)	LL (1-4) (μH) @ 100KHz,0.1 Vrms typ. (2-3 short)	RDC(Winding) (Ω) max.	Rated Current max. (A)	Winding
SF0904110YP□-□□□	11.0±25%	0.05	0.12	0.5	Bifilar
SF0904250YP□-□□□	25.0±25%	1.50	0.20	0.5	Sector
SF0904510YP□-□□□	51.0±25%	2.00	0.30	0.5	Sector
SF0904101YP□-□□□	100.0±25%	0.85	0.10	0.5	Sector
SF0904471YP□-□□□	470.0±25%	0.28	0.28	0.5	Bifilar
SF0904102YP□-□□□	1000.0±25%	0.29	0.40	0.5	Bifilar
SF0904472YP□-□□□	4700.0±25%	0.30	0.70	0.2	Bifilar

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

AR-001A



SPECIFICATION FOR APPROVAL

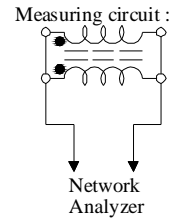
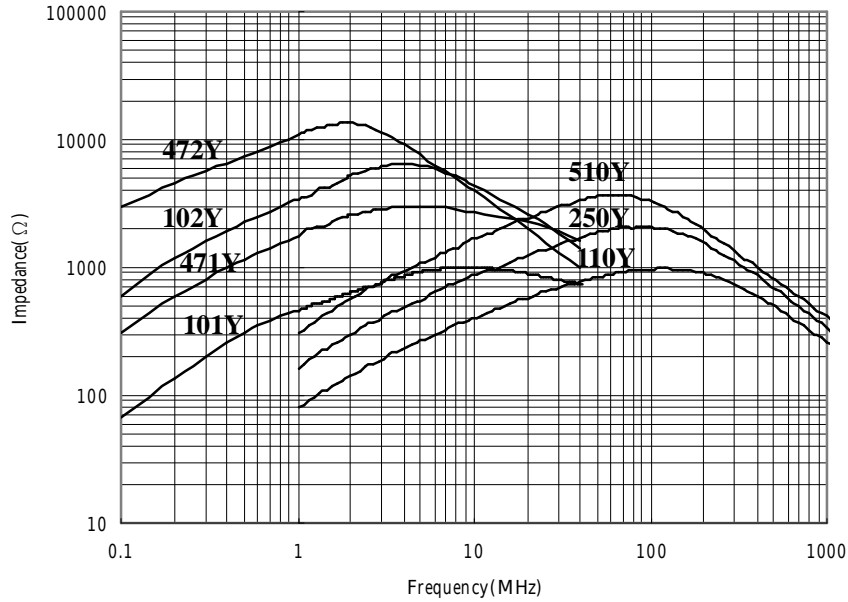
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PAGE : 3

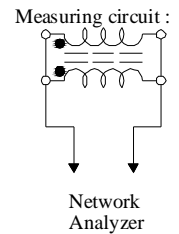
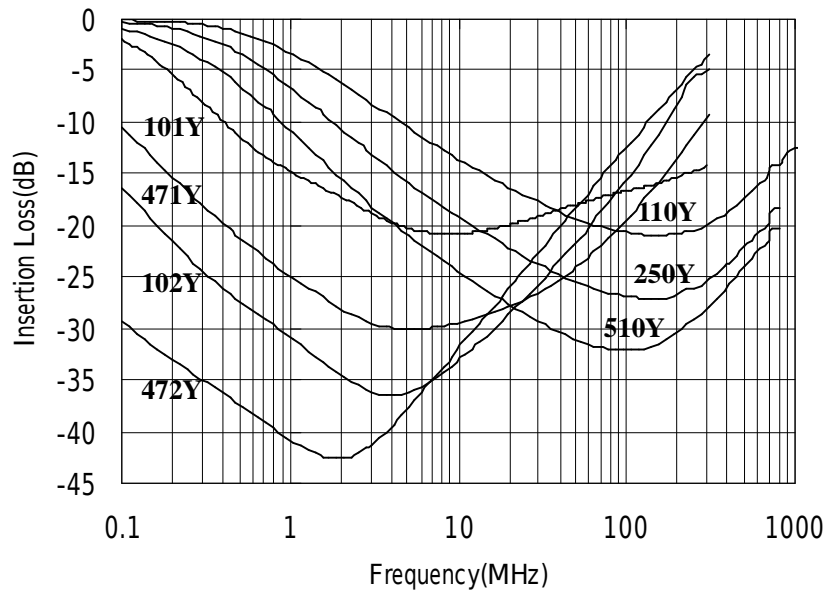
PROD. NAME	SMD LINE FILTER	ABC'S DWG NO. ABC'S ITEM NO.	SF0904□□□□P□-□□□
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VI . CHARACTERISTICS CURVE :

IMPEDANCE VS. FREQUENCY



INSERTION LOSS VS. FREQUENCY



AR-001A

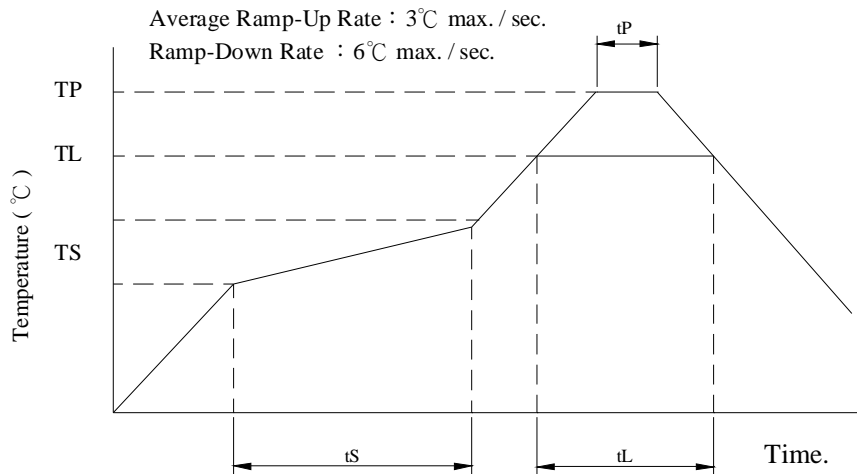
SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

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

■ IPC/ JEDEC J-STD-020C PROFILE



- ※. Preheat (TS) / (tS) : 150~200°C / 60~180sec.
- ※. Time maintained above (TL) / (tL) : 217°C / 60~150sec.
- ※. Peak temp : 20~40sec.
- ※. Peak Temp. : Follow bellow

Package Thickness	Volume mm ³ <350	Volume mm ³ 350~2000	Volume mm ³ >2000
<1.6 mm	260+0°C *	260+0°C *	260+0°C *
1.6 mm~2.5 mm	260+0°C *	250+0°C *	245+0°C *
≥ 2.5 mm	250+0°C *	245+0°C *	245+0°C *

AR-001A

SPECIFICATION FOR APPROVAL

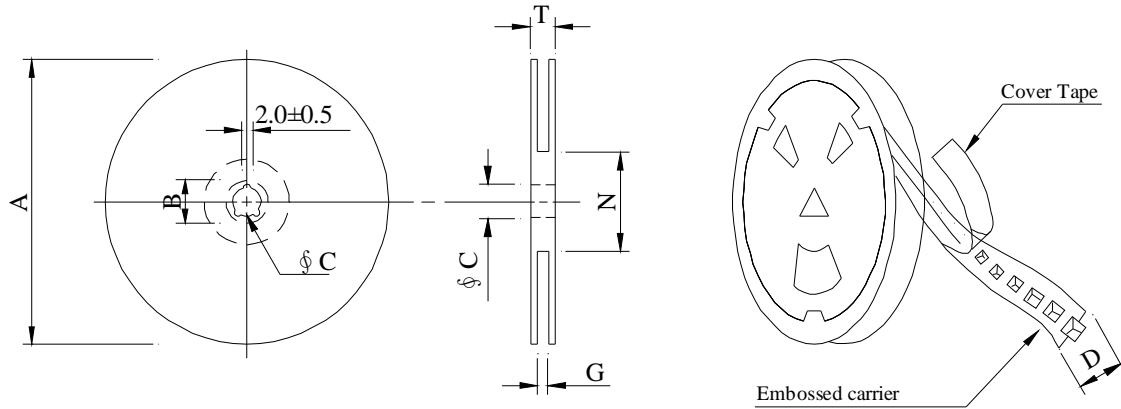
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PAGE: 5

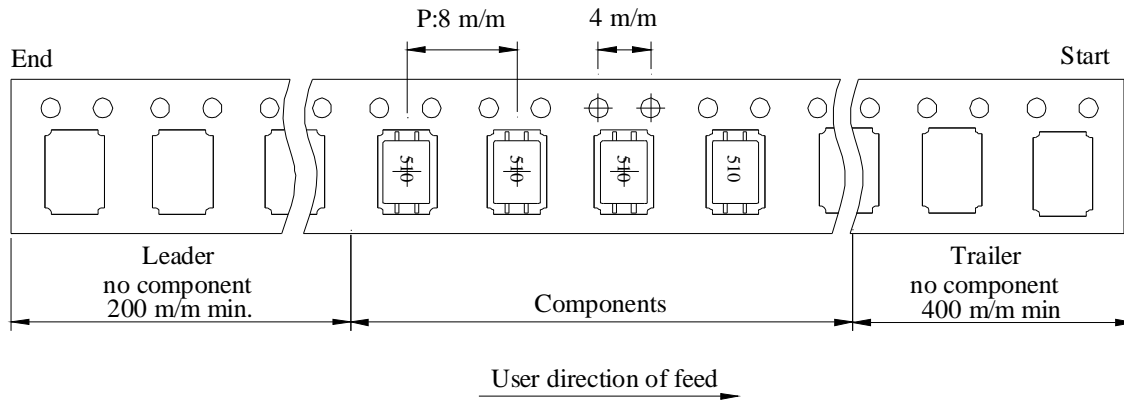
PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0904□□□□P□-□□
		ABC'S ITEM NO.	

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±0.5	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	600	13 - 16	9000	8.0	40 x 40 x 24

AR-001A

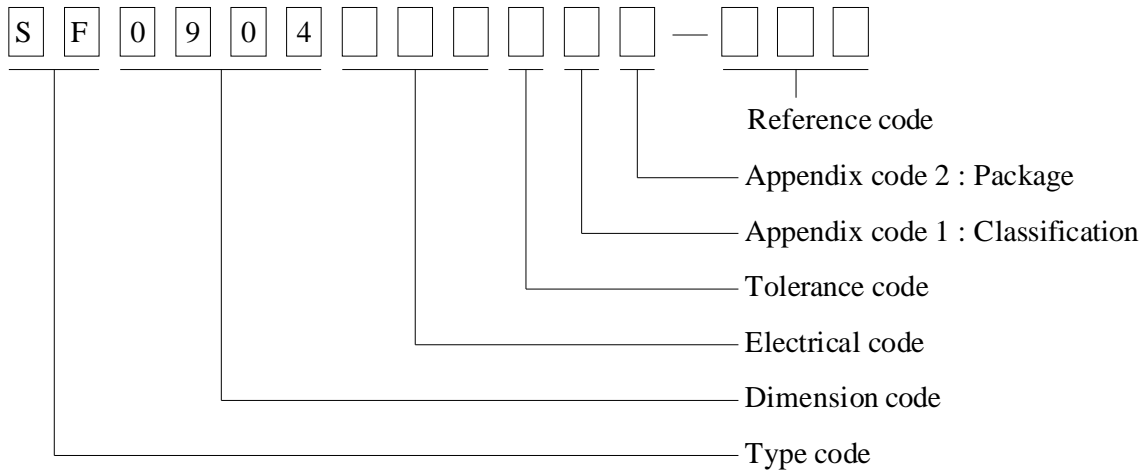
SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

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

Ⅷ . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- P : 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	

SPECIFICATION FOR APPROVAL

REF :

PAGE: 7

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

IX . RELIABILITY TEST FOR AUTOMOTIVE :

Test item	Reference	Test condition
High Temperature Exposure (Storage)	MIL-STD-202 Method 108	1 . Temperature : <input checked="" type="checkbox"/> 125°C <input type="checkbox"/> 105°C <input type="checkbox"/> 85°C 2 . Time : 1000 Hr
Operational Life	MIL-STD-T27	1 . Temperature : <input type="checkbox"/> 125°C <input checked="" type="checkbox"/> 105°C <input type="checkbox"/> 85°C 2 . Time : 1000 Hr
Temperature Cycling	JESD22 Method JA-104	1 . Temperature : <input type="checkbox"/> -40°C to +125°C <input checked="" type="checkbox"/> -40°C to +105°C <input type="checkbox"/> -40°C to +85°C 2 . Cycles : 1000 cycles
Moisture Resistance	MIL-STD-202 Method 103	1 . Time : 24 Hr 2 . Cycles : 1 cycles
Biased Humidity	MIL-STD-202 Method 103	1 . Temperature : 85°C / 85% RH 2 . Time : 1000 Hr
External Visual	MIL-STD-883 Method 2009	1 . Inspect device construction , marking and workmanship . 2 . Electrical Test not required .
Physical Dimension	JESD22 Method JB-100	1 . Verify physical dimensions to the applicable device detail specification . 2 . User(s) and Suppliers spec . Electrical Test not required .
Terminal strength (Leaded)	MIL-STD-202 Method 215	Conditions : (a) 910 g (b) 1.13 Kg (c) 1.45 Kg - mm
Resistance to solvents	MIL-STD-202 Method 215	Add Aqueous wash chemical . OKEM Clean or equivalent .
Vibration	MIL-STD-202 Method 204	1 . Time : 5 g for 20 min 2 . Cycles : 12 cycles 3 . Test from : 10 - 2000 Hz 4 . PCB : 8" × 5" × 0.31"
Thermal shock	MIL-STD-202 Method 107	1 . Temperature : -40°C / +125°C 2 . Cycles : 300 cycles 3 . Maximum transfer time : 20 Sec 4 . Dwelltime : 15 minutes .
Solderability	J-STD-002	For both Leaded & SMD . Electrical Test not required . Magnification 40X . Conditions : Leaded : Method A @ 235°C , category 3 . SMD : a) Method B , 4 Hrs @ 155°C dry heat @ 235°C b) Method B @ 215°C , category 3 . c) Method D category 3 @ 260°C .
Pull strength (SMD)	JIS-C-6429	Force of 1.8 Kg for 60 seconds .

AR-001A



SPECIFICATION FOR APPROVAL

REF :

PAGE: 8

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

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	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

287806002 Page 1 of 2

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 magnet 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.

287806002 Page 2 of 2

OBMW2E174837
September 8, 2000

AR-001A



SPECIFICATION FOR APPROVAL

REF :

PAGE: 9

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO. ABC'S ITEM NO.	SF0904□□□□P□-□□□
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QMFZ2		December 4, 1999									
Component-Plastics											
SUMITOMO BAKELITE CO LTD		E41429									
		Min	UL94		RTI		H	H	H	D	
		Thk	Flame	Elec	Mech		W	A	T	9	C
Mti Dsg	Col	mm	Class	Imp	Str	I	I	R	5	1	
Product Description: Phenolic (PF), designated "Sumikon", furnished as pellets, granular material.											
PM-9630	BK	0.16	V-0	150	150	150	-	-	-	-	-
November 15, 2000											
Product Description: Phenolic (PF), designated "Sumikon", furnished as pellets, granular material.											
PM-9820	BK	0.16	V-0	150	150	150	-	-	-	-	-
		0.30	V-0	150	150	150	-	-	-	-	-
		0.51	V-0	150	150	150	3	1	-	-	-
	BN	0.70	V-0	150	150	150	1	2	-	-	-
		1.50	V-0	150	150	150	0	2	-	-	-
		3.00	V-0	150	150	150	0	2	0	5	3
October 20, 2001											
Product Description: Phenolic (PF), designated "Sumikon", furnished as pellets or granular.											
PM-8375	BK	0.49	V-0	150	150	150	-	-	-	-	-
Underwriters Laboratories Inc.®											

AR-001A

