

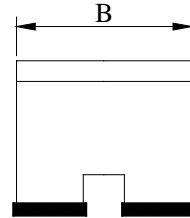
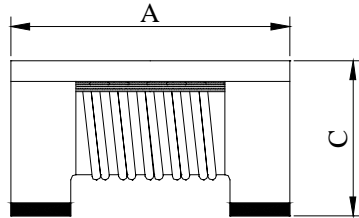
SPECIFICATION FOR APPROVAL

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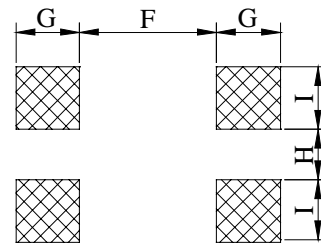
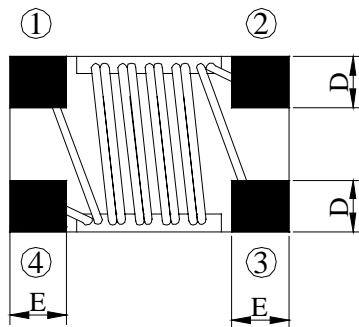
PAGE: 1

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF3216□□□□L□
		ABC'S ITEM NO.	

. MECHANICAL DIMENSIONS :

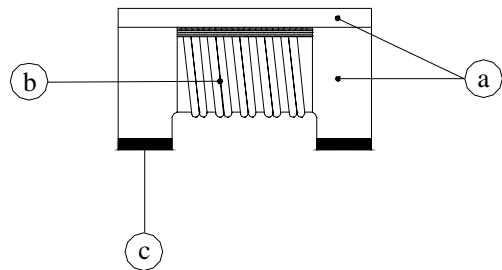
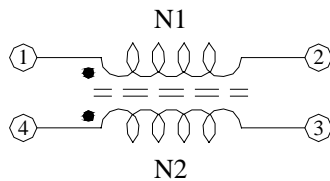


- A : 3.20±0.2 m/m
- B : 1.60±0.2 m/m
- C : 1.90±0.2 m/m
- D : 0.60 typ. m/m
- E : 0.60 typ. m/m
- F : 1.90 ref. m/m
- G : 0.80 ref. m/m
- H : 0.46 ref. m/m
- I : 0.80 ref. m/m



(PCB Pattern)

. SCHEMATIC DIAGRAM :



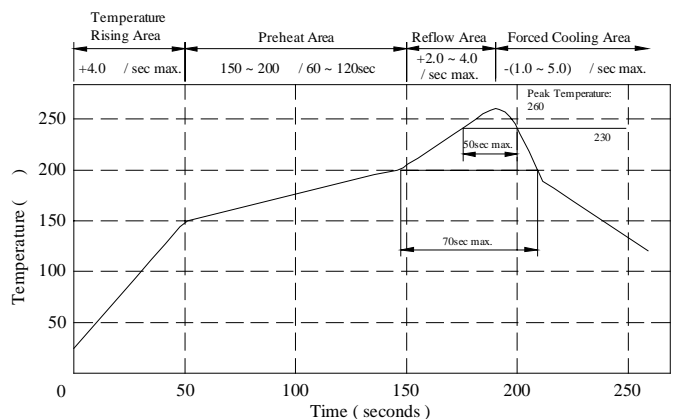
. MATERIALS LIST :

- a . Core : Ferrite
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag / Ni / Sn
- d . Remark : Lead content 200 ppm max.
include ferrite

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

. GENERAL SPECIFICATION :

- a . Temp rise : 20 max
- b . Rated current : Base on temp. rise
& L/L0A=20% max.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+125
(Temp. rise included)



AE-001A

SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF3216□□□□L□
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. ELECTRICAL CHARACTERISTICS :

Dwg. No.	Impedance (Ω) @ 100 MHz	Rated (DC) V	Withstanding (DC) V	Insulation Resistance (M Ω) min.	RDC (Ω) max.	IDC (mA) max.
SF3216900YL□	90±25%	50	125	10	0.300	370
SF3216161YL□	160±25%	50	125	10	0.400	340
SF3216261YL□	260±25%	50	125	10	0.500	310
SF3216601YL□	600±25%	50	125	10	0.800	260
SF3216102YL□	1000±25%	50	125	10	1.000	230
SF3216222YL□	2200±25%	50	125	10	1.200	200

- 1). □ : Packaging information... A: Bulk B: Taping Reel
- 2). Impedance Test Instrument : HP4291A.
- 3). RDC Test Instrument : CH-502AC.
- 4). IDC Test Instrument : CH1062+CH301A.

AE-001A

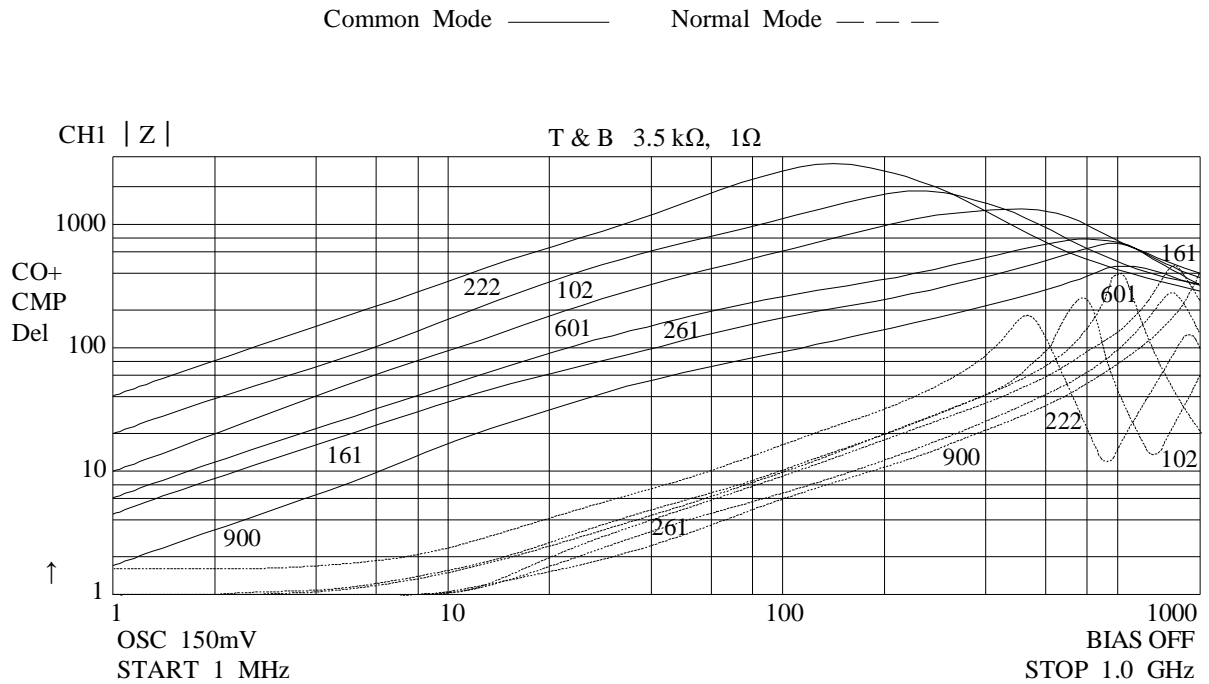
SPECIFICATION FOR APPROVAL

REF :

PAGE: 3

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF3216□□□□L□
		ABC'S ITEM NO.	

. INSERTION LOSS Vs. FREQUENCY & IMPEDANCE Vs. FREQUENCY :



Z (f)	Common Mode							Normal Mode						
	1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz
900	1.64	4.90	15.0	38.9	91.6	159.1	444.3	0.492	0.535	0.857	2.033	5.917	16.621	69.935
161	4.13	12.34	35.4	82.6	172.1	292.2	632.8	0.419	0.508	1.058	2.817	8.611	25.076	128.71
261	5.27	15.87	47.6	116.2	248.9	427.7	723.6	0.507	0.565	0.986	2.432	7.009	19.648	363.03
601	9.36	28.12	88.1	236.7	616.2	1164.1	750.1	0.793	0.876	1.476	3.583	10.235	29.339	384.10
102	17.78	53.20	165.3	434.2	1118.3	1703.8	494.6	0.992	1.066	1.665	3.925	11.230	33.642	56.565
222	36.18	107.70	335.6	909.4	2789.5	1565.7	441.9	1.475	1.563	2.300	5.202	14.796	49.880	14.369

AE-001A



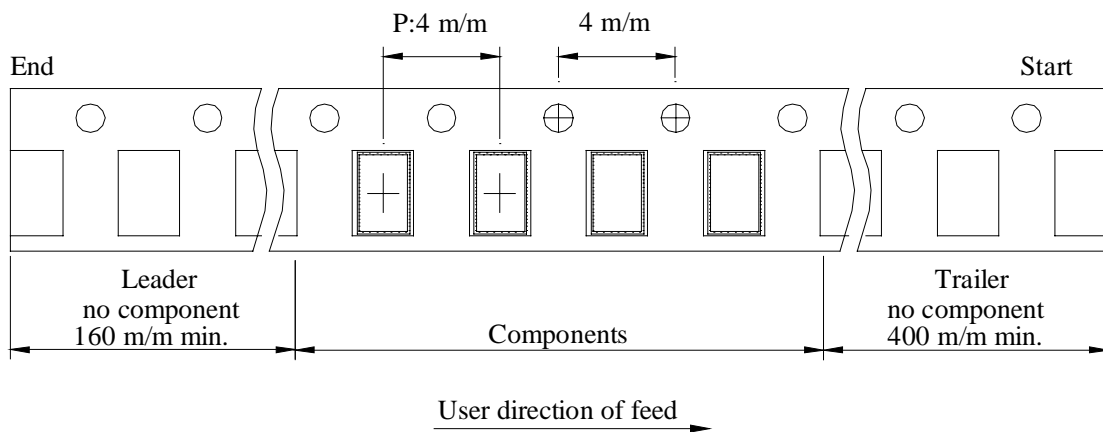
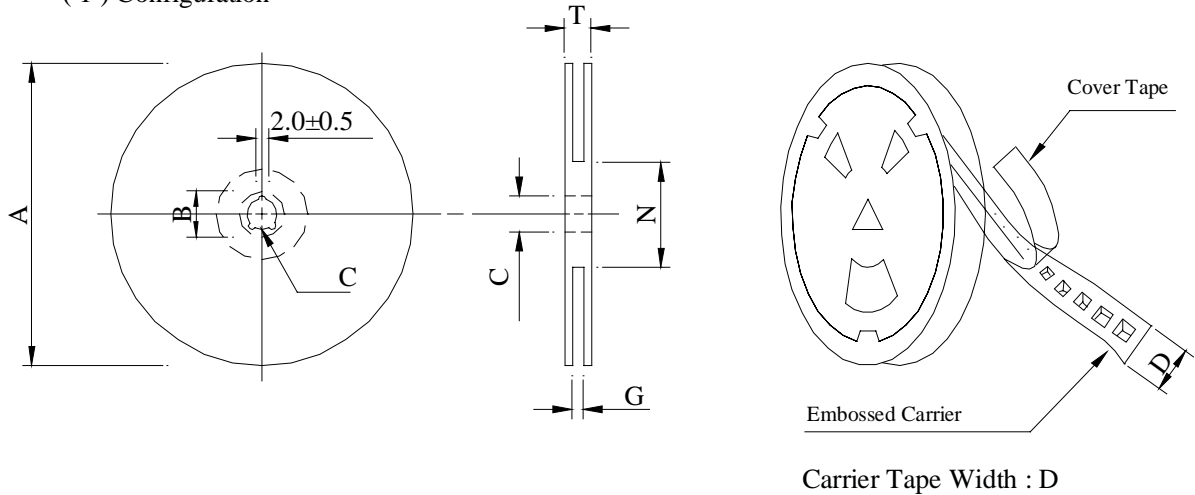
SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF3216□□□□L□
		ABC'S ITEM NO.	

PACKAGING INFORMATION :
(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	14 ⁺⁰	50 ⁻⁰	16.5

(3) QTY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	QTY (pcs)	G.W. (gw)	Style	QTY (pcs)	G.W. (Kg)	SIZE (cm)
SF3216	2,000	95	07 - 08	100,000	6.50	41 x 39 x 22

AE-001A

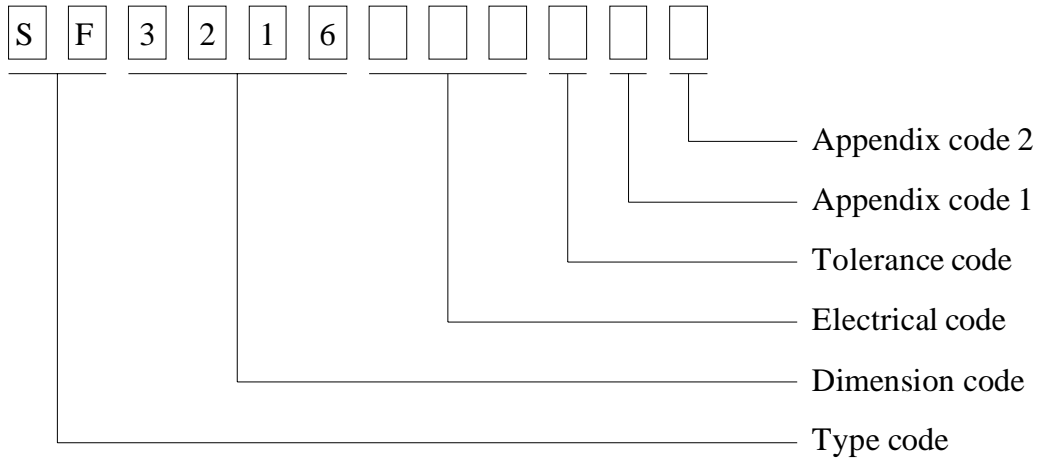
SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

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. 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)	2000 pcs	

SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO. ABC'S ITEM NO.	SF3216□□□□L□
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. RELIABILITY TEST :

1-1.Environmental Performance

No	Item	Specification	Test Method															
1-1-1	Temperature Cycle	Appearance: No Damage Impedance: within±20% of initial value	One cycle: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temperature ()</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25±3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25±2</td> <td>3</td> </tr> <tr> <td>3</td> <td>85±3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25±2</td> <td>3</td> </tr> </tbody> </table> Total: 5 cycles Measured After Exposure in The Room Condition For 1hrs	Step	Temperature ()	Time (min)	1	-25±3	30	2	25±2	3	3	85±3	30	4	25±2	3
Step	Temperature ()	Time (min)																
1	-25±3	30																
2	25±2	3																
3	85±3	30																
4	25±2	3																
1-1-2	Humidity Resistance		Temperature: 40±2 Relative Humidity: 90 ~ 95% Time: 100hrs Measured After Exposure In The Room Condition For 1hrs															
1-1-3	High Temperature Resistance		Temperature: 85±3 Time: 50Hrs Measured After Exposure In The Room Condition For 1Hrs															
1-1-4	Low Temperature Resistance		Temperature: -25±3 Time: 50Hrs Measured After Exposure In The Room Condition For 1Hrs															
1-1-5	High Temperature Load Life	There should be no evidence of short or open circle	Temperature: 85±3 Load: Allowed DC Current Time: 500Hrs															
1-1-6	Humidity Load Life		Temperature: 40±2 Relative Humidity: 90~95% Load: Allowed DC Current Time: 500Hrs															

1-2.Mechanical Performance

No	Item	Specification	Test Method
1-2-1	Resistance To Soldering Heat	Appearance: No Damage	1. The Device Should Be Reflow soldered on PCB (peak 260 ±5 For 10 Seconds) 2. Solder Composition: Sn/Ag3.0/Cu0.5 3. Test Time: 6 minutes
1-2-2	Solder ability	The Electrodes Shall Be At Least 90% Covered with New Solder Coating	1. Pre-Heating: 150 ,1min. 2. Solder Composition: Sn/Ag3.0/Cu0.5 3. Solder Temperature: 245±5 . 4. Immersion Time: 4±1 sec.
1-2-3	Compponent Adhesion (Push Test)	2 Lbs	The device should be reflow soldered (230±5 For 10 seconds) to a tinned copper substrate. A force guauge should be applied to the side of the component. The device must withstand a minimum force of 2 pounds without a failure of the termination attached to component

SPECIFICATION FOR APPROVAL

REF :

PAGE: 7

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF3216□□□□L□
		ABC'S ITEM NO.	

. 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

287806002 Page 1 of 2

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committed to quality service

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 magened wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signi-
fies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks 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

AE-001A

