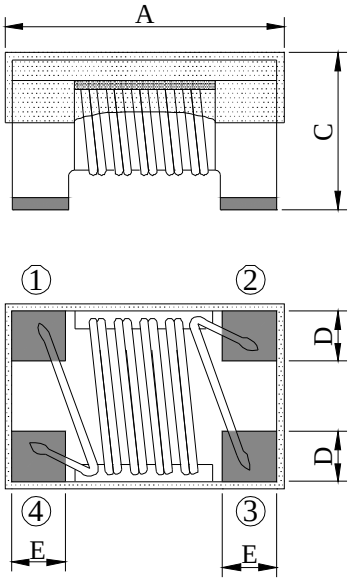
SPECIFICATION FOR APPROVAL

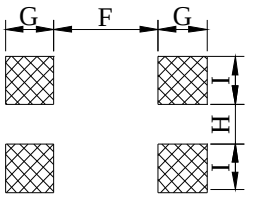
REF : 20120620-B

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅰ．MECHANICAL DIMENSIONS：

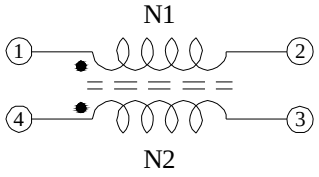


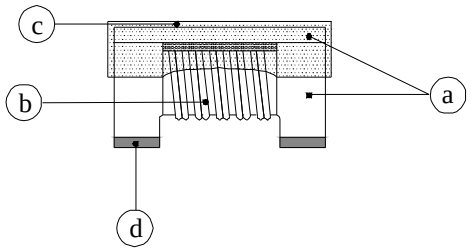
A ：	2.20±0.2	m/m
B ：	1.40±0.2	m/m
C ：	1.30±0.2	m/m
D ：	0.40 typ.	m/m
E ：	0.45 typ.	m/m
F ：	0.80 ref.	m/m
G ：	0.90 ref.	m/m
H ：	0.40 ref.	m/m
I ：	0.40 ref.	m/m



(PCB Pattern)

Ⅱ．SCHEMATIC DIAGRAM：





Ⅲ．MATERIALS LIST：

a．Core：Ferrite

b．Wire ：Enamelled copper wire (class H)

c．Encapsulate：Epoxy

d．Terminal：Ag / Ni / Sn

e．Remark：Products comply with RoHS' requirements

Ⅳ．GENERAL SPECIFICATION：

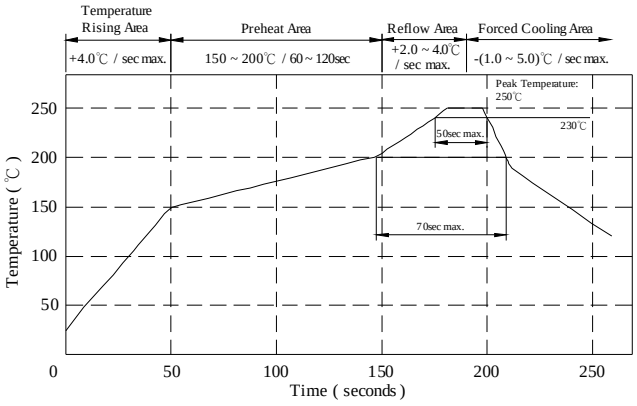
a．Temp. rise ：15℃ max.

b．Storage temp.：-10℃ ----+40℃

c．Operating temp.：-55℃----+125℃

d．Resistance to solder heat：260℃. 10 secs

Peak Temp：250℃ max.
Max time above 230℃ ：50sec max.
Max time above 200℃ ：70sec max.



千如電子集團
ABC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

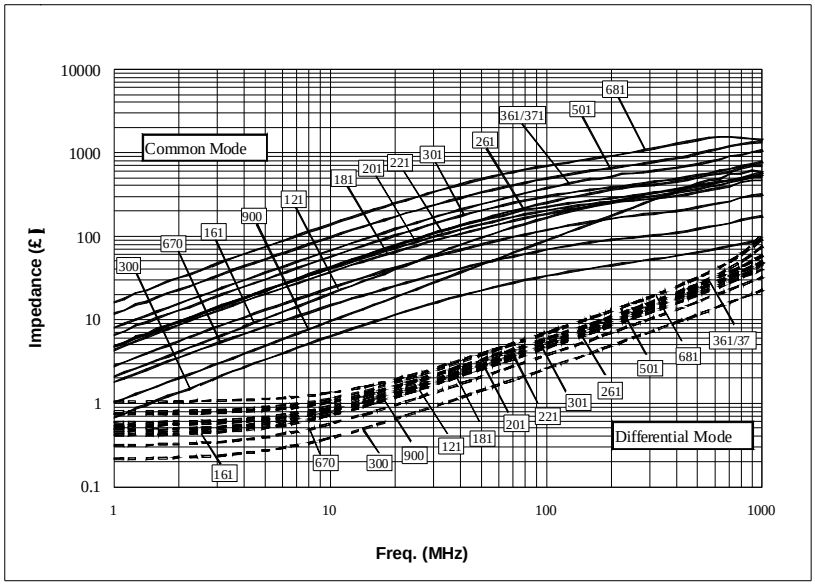
Ⅴ．ELECTRICAL CHARACTERISTICS ：

Dwg. No.	Impedance (Ω) @ 100 MHz	Rated (DC) V	Withstanding (DC) V	Insulation Resistance (MΩ) min.	RDC (Ω) max.	IDC (mA) max.
SF2012300YF□-□□□	30±25%	50	125	10	0.200	500
SF2012670YF□-□□□	67±25%	50	125	10	0.250	400
SF2012900YF□-□□□	90±25%	50	125	10	0.350	330
SF2012121YF□-□□□	120±25%	50	125	10	0.300	370
SF2012161YF□-□□□	160±25%	50	125	10	0.350	330
SF2012181YF□-□□□	180±25%	50	125	10	0.350	330
SF2012201YF□-□□□	200±25%	50	125	10	0.350	330
SF2012221YF□-□□□	220±25%	50	125	10	0.350	330
SF2012261YF□-□□□	260±25%	50	125	10	0.400	300
SF2012301YF□-□□□	300±25%	50	125	10	0.400	300
SF2012361YF□-□□□	360±25%	50	125	10	0.450	280
SF2012371YF□-□□□	370±25%	50	125	10	0.450	280
SF2012501YF□-□□□	500±25%	50	125	10	0.600	250
SF2012671YF□-□□□	670±25%	50	125	10	0.650	230

1). □：Packaging information… [A]：Bulk [B]：Taping Reel

2)．"-□□□ ":Reference code

Ⅵ．IMPEDANCE VS. FREQUENCY CHARACTERISTICS：



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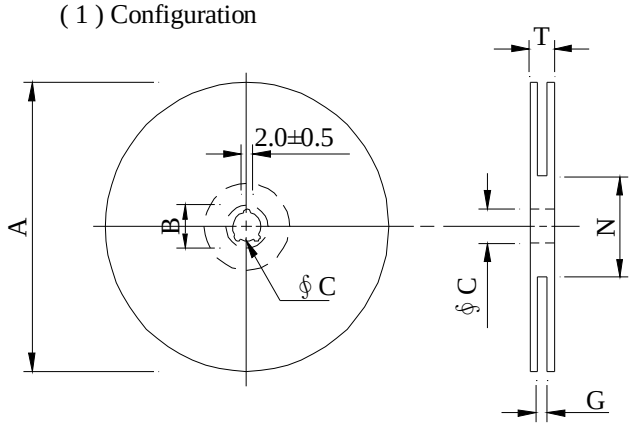
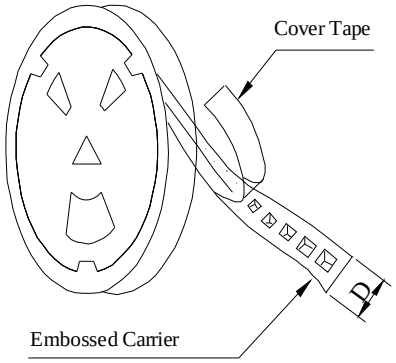
SPECIFICATION FOR APPROVAL

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

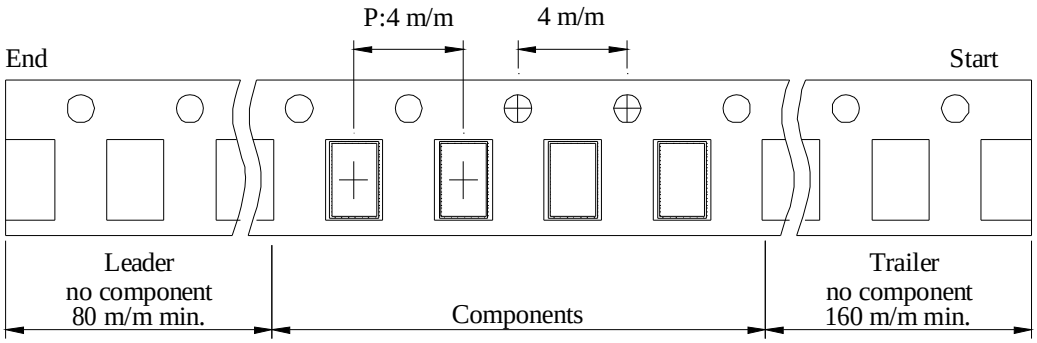
Ⅶ．PACKAGING INFORMATION：

(1) Configuration





※Carrier Tape Width : D



User direction of feed →

(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

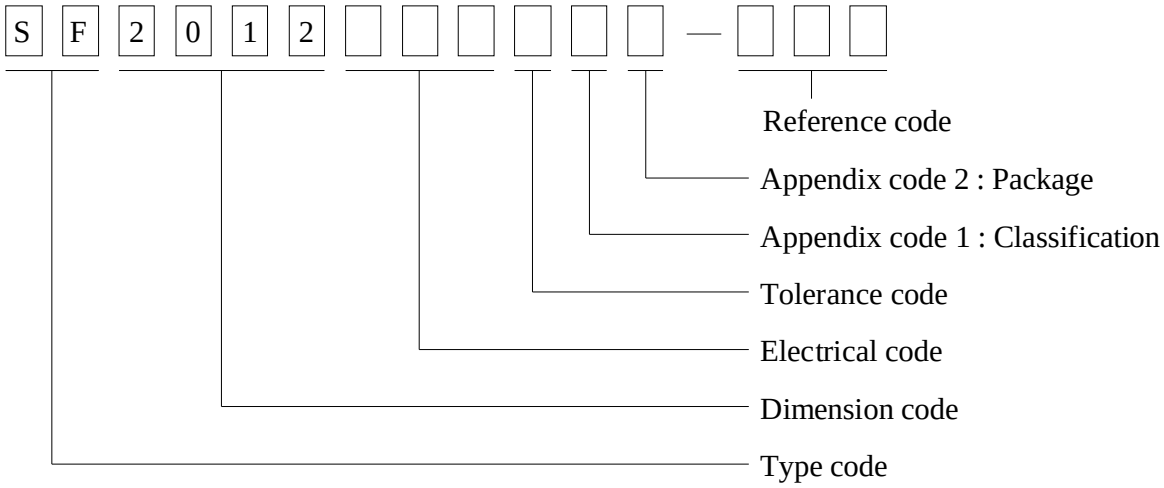
(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	SIZE (cm)
SF2012	2,000	95	07 - 08	100,000	6.50	41 x 39 x 22

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅷ．DWGING NUMBER EXPRESSION：



Appendix code 1：Product Classification

F：Lead Free Standard products comply with RoHS' requirements

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

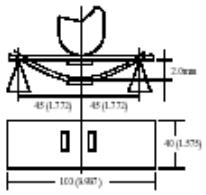
Appendix code 2：Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	2000 pcs	

SPECIFICATION FOR APPROVAL

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅸ．RELIABILITY TEST：

	ITEM	CONDITION	SPECIFICATION
Electrical Characteristics	Common Mode Impedance (Zc) and Tolerance	Measuring Equipment : HP-4287A or equivalent. Measuring Frequency : 100 ± 1MHz Measuring Temperature : 25 ± 5°C (Refer to Measurement Diagram)	Within ± 25%
	Insulation Resistance	Measuring Voltage : Rated Voltage Measuring Time : 1 minute max. (Refer to Measurement Diagram)	10 mega ohms minimum
	Dielectric Withstanding Voltage	Test Voltage : 2.5 times to Rated Voltage Time : 1 to 5 seconds. Charge current : 1mA max. (Refer to Measurement Diagram)	No damage occurs when the test voltage is applied.
	Rated Current	Test Current : Rated Current (Refer to Measurement Diagram)	Temperature Rise : ≤ 15°C
	DC Resistance (RDC)	Measured with current of 100mA max. In case of doubt, measured by four terminal method. (Refer to Measurement Diagram)	Within Specified Tolerance.
Mechanical Characteristics	Flexure Strength		**Table 1.** Change In Appearance Without distinct damage Change In Common Mode Impedance: Within ± 20% Insulation Resistance: 10MΩ min Withstanding Voltage: No damaged
	Drop Test	Components shall be dropped three times on a concrete or steel board at height of 1 M naturally at any directions.	
	Vibration (Random)	Components shall be randomly vibrated at amplitude of 1.5mm and frequency of 10 - 55 Hz: 0.04 G / Hz, 1 minute at a period of 2 hours in each of the three mutually perpendicular directions.	
	Solderability	Dip pads in flux and then in a solder bath at 240 °C ± 5°C for 5 seconds.	A minimum of 80% of the metalized area must be covered with new solder.
	Resistance to Soldering Heat	Preheat components at 80 to 120 °C for 1 minute. Dip components into flux and then into a melted solder bath at 260 ± 5°C for 5 ± 1 seconds. Then components are to be tested after 4-48 hours at room temperature.	Meet Table 1.
	Component Adhesion (Push Test)	Components shall be reflow solder onto a P. C. Board (240 ± 5°C for 20 seconds). Then a dynometer force gauge shall be applied to any side of the component.	Components must withstand a minimum force of 1 Kg without any failure of the termination to component attachment.

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

	ITEM	CONDITION	SPECIFICATION
Endurance Characteristics	Cold Temperature Storage	Components shall be stored at temperature of -40 °C ± 2 °C for 1000 (+48 hours -0 hour). Then components shall be subjected to standard atmospheric conditions for 4-48 hours. After that, measurement shall be made.	Table 1. Change In Appearance Without distinct damage Change In Common Mode Impedance: Within ± 20% Insulation Resistance: 10MΩ min Withstanding Voltage: No damaged
	High Temperature Storage	Components shall be stored at temperature of +85 °C ± 2 °C for 1000 (+48 hours -0 hour). Then components shall be subjected to standard atmospheric conditions for 4-48 hour. After that, measurement shall be made.	
	Moisture Resistance	Components shall be stored in the chamber at 40 °C at 90 - 95% R. H. for 1000 (+48 hours -0 hour). Then components are to be tested after 4-48 hours at room temperature.	
	Temperature Cycle	Each cycle shall consist of 30 minutes at -40°C followed by 30 minutes at 85°C with a 10-15 minutes maximum transition time between temperature extremes. Test duration is 100 cycles, then components are to be tested after 4-48 hours at room temperature.	
	High Temperature With Loaded (Rated Current)	Components shall be stored at temperature of +85 °C ± 2 °C for 1000 (+48 hours -0 hour) with rated current applied. Then components shall be subjected to standard atmospheric conditions for 4-48 hour. After that, measurement shall be made.	

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF2012□□□□F□-□□□
		ABC'S ITEM NO.	

X . UL CARD :

OBMW2 August 27, 1999

Magnet Wire-Comporent

ELEKTRISOLA (MALAYSLA) SDN BHD E143312
IALAN DAMN SATU IANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA

		Coating Type		ANSI	Temp
Mtl Dsg	Mark Dsg	BC	OC	Typ	Class
Estersol 160	E180	Polyesterimide (solderable)	——	MW-77	180
Amldester 200	A200	Polyesterimide	——	MW-74	200
Polysol-N 155	PN155	Polyurechane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurechane	——	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurechane	——	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurechane	——	MW-79	155
Polysol 160	P160	Polyurechane	——	MW-79	155
Polysol 180	P180	Polyurechane	——	MW-79	155
Polysol 170	P170 or G170	Polyurechane	——	MW-79	156
Polysol-N 180	PN180	Polyurechane	Nylon	——	180

Marking : Dompany name/nateriel designation or marked designation and factory identification on package ok reel

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.