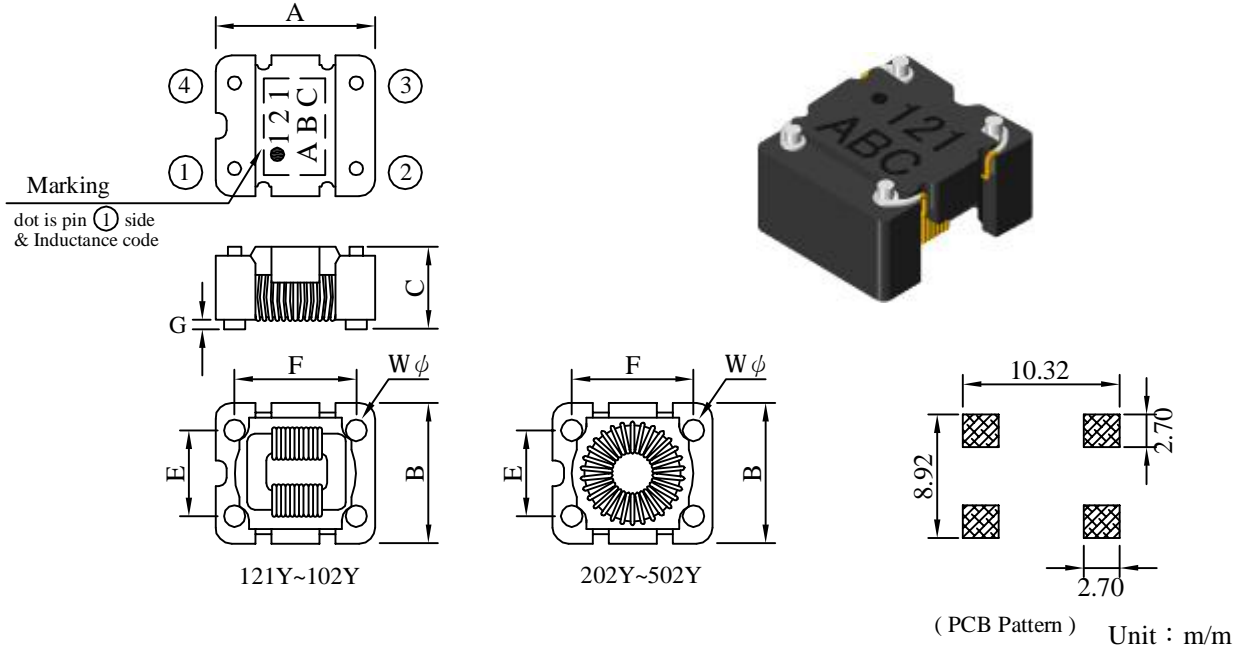


# SPECIFICATION FOR APPROVAL

REF. :

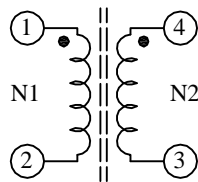
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1006□□□□L□-□□□		
		REV.	20121011-A	PAGE	1

## I . Configuration and dimensions :



A	B	C	E	F	G	Wφ
10.00±0.3	8.70±0.3	6.50 max.	6.22±0.1	7.62±0.1	0.30 min.	1.50 ref.

## II . Schematic diagram :



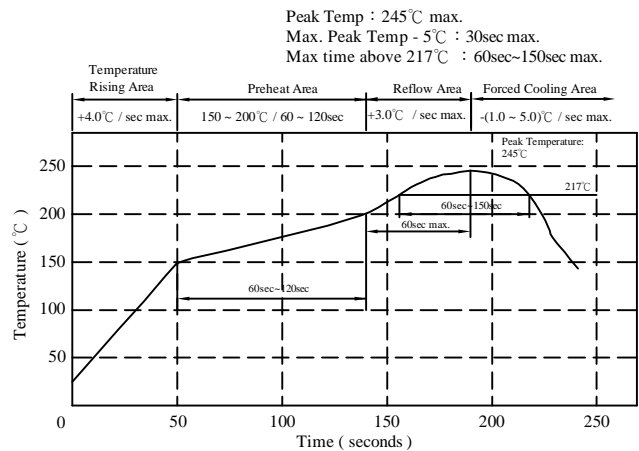
" ● " : Polarity

## III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : F · H class
- c . Product weight : 0.79g ( ref. )
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

## IV . General specification :

- a . Storage temp. : -25°C ---- +85°C
- b . Operating temp. : -20°C ---- +80°C  
(Temp. rise included)
- c . Resistance to solder heat : 245°C. 10 secs.



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# SPECIFICATION FOR APPROVAL

REF. :

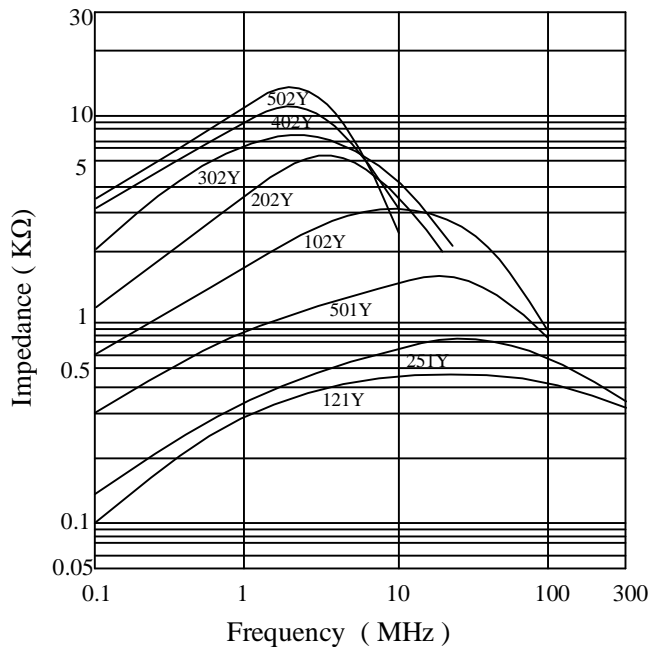
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1006□□□□L□-□□□		
		REV.	20121011-A	PAGE	2

V . Electrical characteristics :

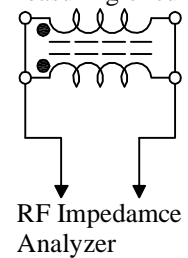
DWG No.	Inductance L1 , L2 ( $\mu$ H)	DC Resistance N1 , N2 ( $\Omega$ )	Nominal voltage Vdc (V)	Rated current (A)	HI-POT Test	Impedance ( $\Omega$ )	Freq. range (MHz)
SF1006121YL□-□□□	120 $\pm$ 40%	0.025 max.	50	1.40	1000 Vac 60 Hz 3 mA 1 minute	200 min.	10~ 200
SF1006251YL□-□□□	250 $\pm$ 40%	0.035 max.	50	1.19		400 min.	5~ 100
SF1006501YL□-□□□	500 $\pm$ 40%	0.070 max.	50	0.84		800 min.	2~ 50
SF1006102YL□-□□□	1000 $\pm$ 40%	0.180 max.	50	0.52		1400 min.	1~ 40
SF1006202YL□-□□□	2000 $\pm$ 40%	0.270 max.	50	0.40	300 Vac 60 Hz 3 mA 1 minute	2000 min.	0.5~ 15
SF1006302YL□-□□□	3000 $\pm$ 40%	0.330 max.	50	0.35		3000 min.	0.5~ 10
SF1006402YL□-□□□	4000 $\pm$ 40%	0.550 max.	50	0.30		4000 min.	0.5~ 5
SF1006502YL□-□□□	5000 $\pm$ 40%	0.620 max.	50	0.25		5000 min.	0.5~ 3

- 1). □: Packaging information : □ Code
- 2). "- □□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Irms base on Temp. rise 45°C max.
- 5). Inductance Test Condition. : 100KHz / 0.1V

VI . Curve :



Measuring circuit :



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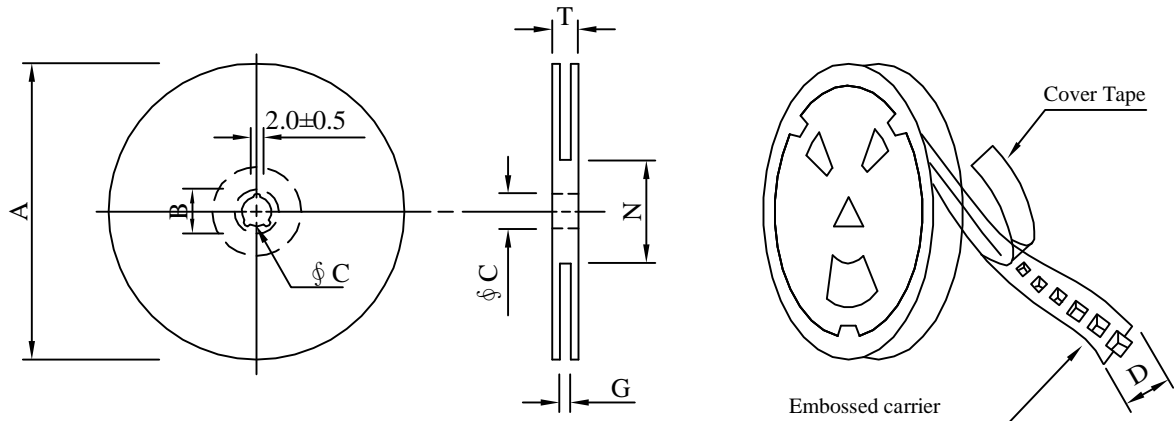
# SPECIFICATION FOR APPROVAL

REF. :

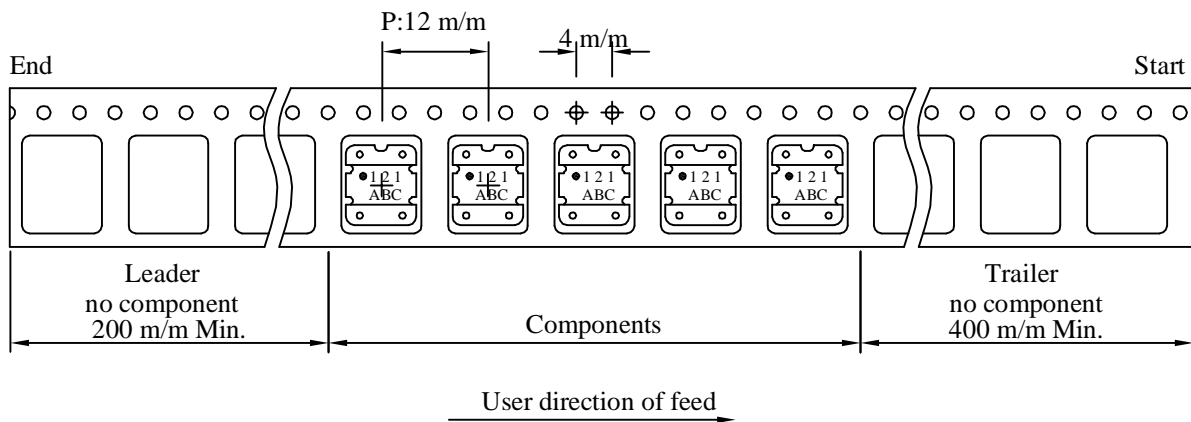
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1006□□□□L□-□□□		
		REV.	20121011-A	PAGE	3

## VII . Packaging information :

### ( 1 ) Configuration



※Carrier tape width : D



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13	24	18 <sup>+0</sup>	60 <sup>-0</sup>	22.4

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

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
B	800	480	13 - 24	3,200	5.6	38 x 37 x 22

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# SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1006□□□□L□-□□□		
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### VIII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 85°C 2.Time:96 hours.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -25°C ~ 85°C 2.Number of cycle:96 cycle 3.Dwell time:30 minutes	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature: 85±5 °C 2.Time:96 Hours 3.Humidity: 85±5% RH.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
4.Operational Life	MIL-PRF-27	1.Temperature: 80°C 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
5.External Visual	MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22 Method JB-100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for their cycles.	1.No body change in appearance. 2.No marking blurred. 3.Inductance shall not change more than ±50%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Highest temperature : 245±5°C 2.Time ( temp. ≥ 217°C ) : 60~150 Second. 3.IR reflow times : 3 times.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
12.Over load	MIL-PRF-27	Apply twice as rated current for 5 minutes. (It's not application to some special design)	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
13.Solderability Test	J-STD-002	1.Baking in pre-testing : 155±5°C / 16Hours±30 min. 2.Peak temperature : 240±5°C 3.Time ( temp. ≥ 217°C ) : 60~150 second. 4.IR reflow times : 1 times.	The terminal shall be at least 95% covered with fresh solder.
14.Electrical Characterization	User Spec.	1.Operating temperature : -20°C~80°C 2.Room temperature : 25°C.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DV:500V 2.Time:1minutes	1.During the test no breakdown. 2.The characteristic is normal after test.
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.	1.No case deformation or change in appearance. 2.Inductance shall not change more than ±50%.
17.Terminal Strength Test	JIS-C-6429	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.

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