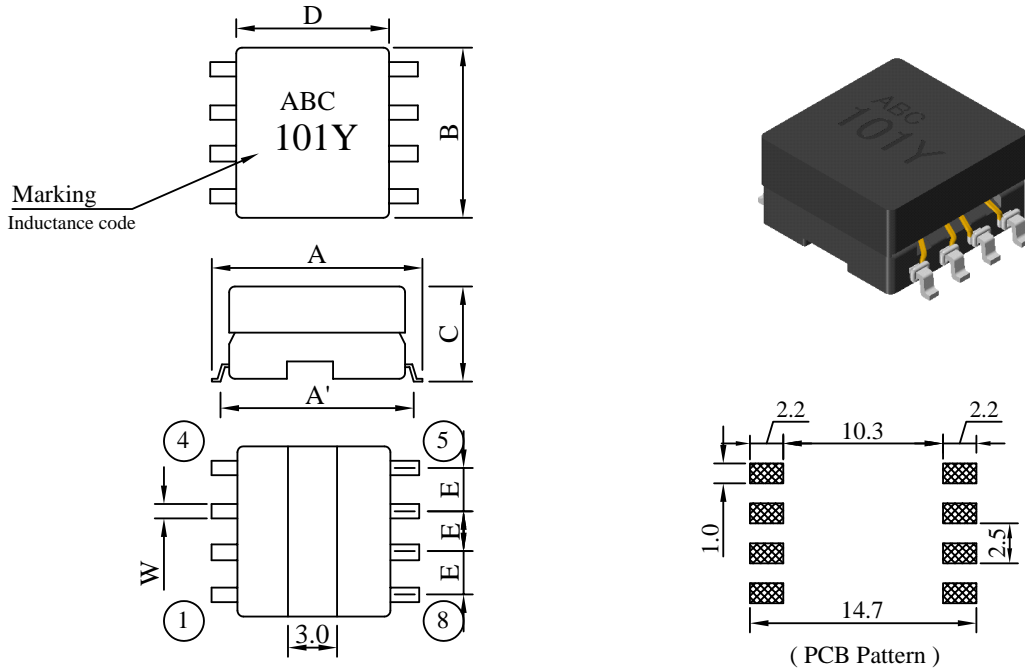


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1306□□□□2□-□□□		
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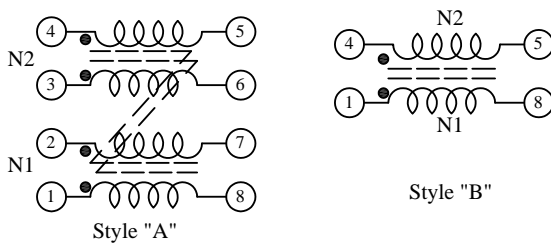
I . Configuration and dimensions :



Unit : m/m

A	A'	B	C	D	E	W
12.70 ±0.8	11.00 ±0.5	10.50 max.	5.75 ±0.3	9.50 ±0.2	2.50 ±0.2	0.70 ±0.1

II . Schematic diagram :

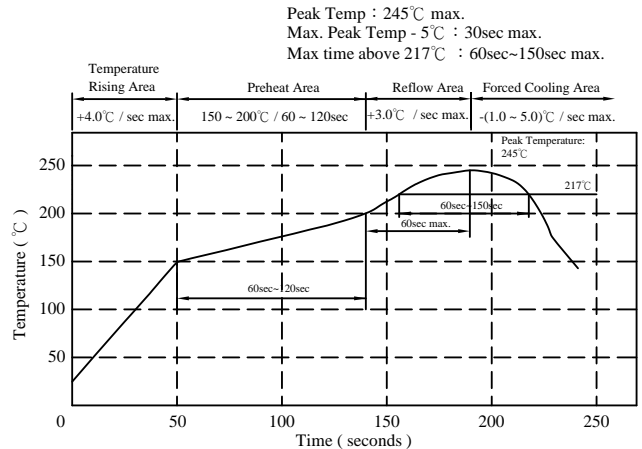


III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : H class
- c . Product weight : 0.82g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

IV . General specification :

- a . Storage temp . : -40°C ----+85°C
- b . Operating temp . : -40°C ----+80°C
(Temp. rise included)
- c . Resistance to solder heat : 245°C . 10 secs.



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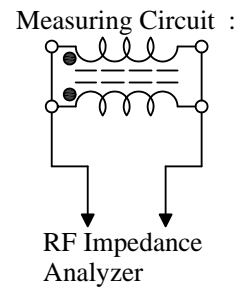
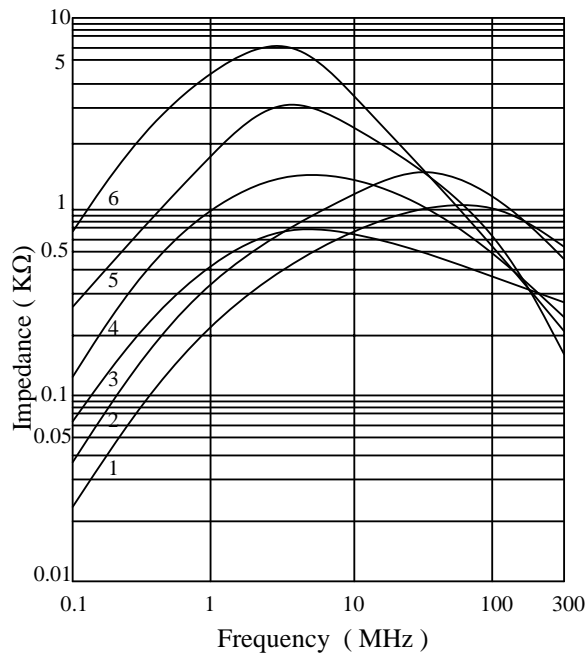
IV . Electrical characteristics :

DWG No.	Inductance (uH) 0.1 V , 100 KHz		DC Resistance N1 , N2 (Ω)	Rated current (A)	HI-POT Test	Impedance (Ω)	Freq. range (MHz)	Style
	L1 , L2	L1-L2						
SF1306350Y2□-□□□	35±35%	4 max.	0.035 max.	2.70 max.	500 Vac 60 Hz 3 mA 1 Minute	400 min.	5 ~ 250	B
SF1306600Y2□-□□□	60±35%	5 max.	0.065 max.	2.00 max.		600 min.	5 ~ 100	B
SF1306101Y2□-□□□	100±35%	15 max.	0.100 max.	0.70 max.		300 min.	1 ~ 50	A
SF1306251Y2□-□□□	250±35%	25 max.	0.150 max.	0.60 max.		600 min.	1 ~ 40	A
SF1306501Y2□-□□□	500±35%	35 max.	0.300 max.	0.40 max.		1200 min.	1 ~ 40	A
SF1306102Y2□-□□□	1000±35%	45 max.	0.400 max.	0.35 max.		2200 min.	0.5 ~ 10	A

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Irms base on Temp. rise 45°C max.

V . Curve :

- 6 : SF1306102Y
- 5 : SF1306501Y
- 4 : SF1306251Y
- 3 : SF1306101Y
- 2 : SF1306600Y
- 1 : SF1306350Y



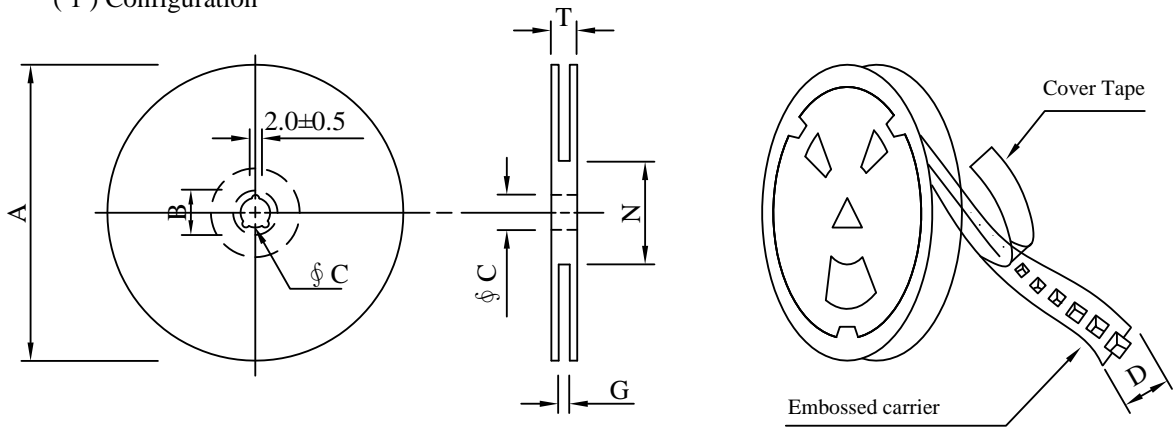
SPECIFICATION FOR APPROVAL

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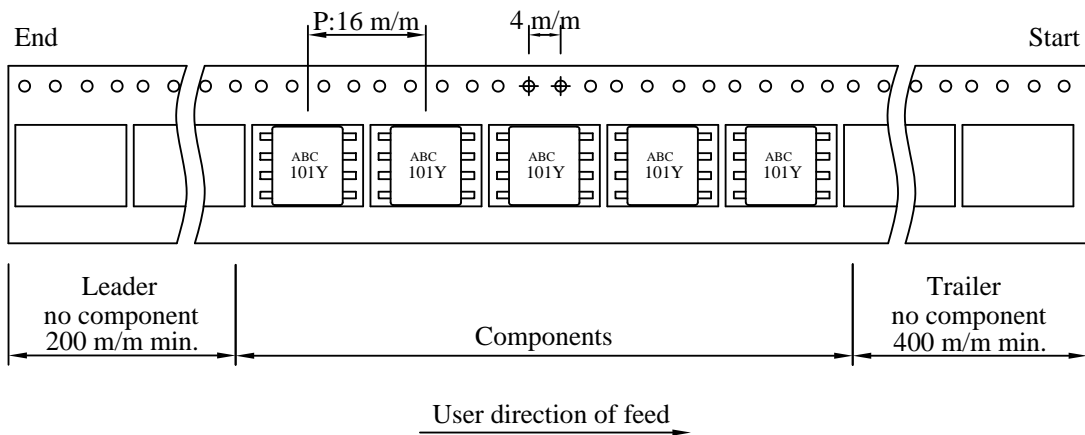
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF1306□□□□2□-□□□		
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VI . Packaging information :

(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±0.5	24	26 ⁺⁰	60 ⁻⁰	30.4

(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)
A	600	700	13 - 24	2,400	6.5	38 x 37 x 22

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VII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature:85℃ 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:-40℃ ~ 85℃ 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 ℃ 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℃ 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 3 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℃ 2.Time (temp. ≥ 217℃) : 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 double 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℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 times.	The terminal shall be at least 95% covered with fresh solder.
14.Electrical Characteriazation	User Spec.	1.Operating temperature : -40℃~80℃ 2.Room temperature : 25℃.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DC: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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