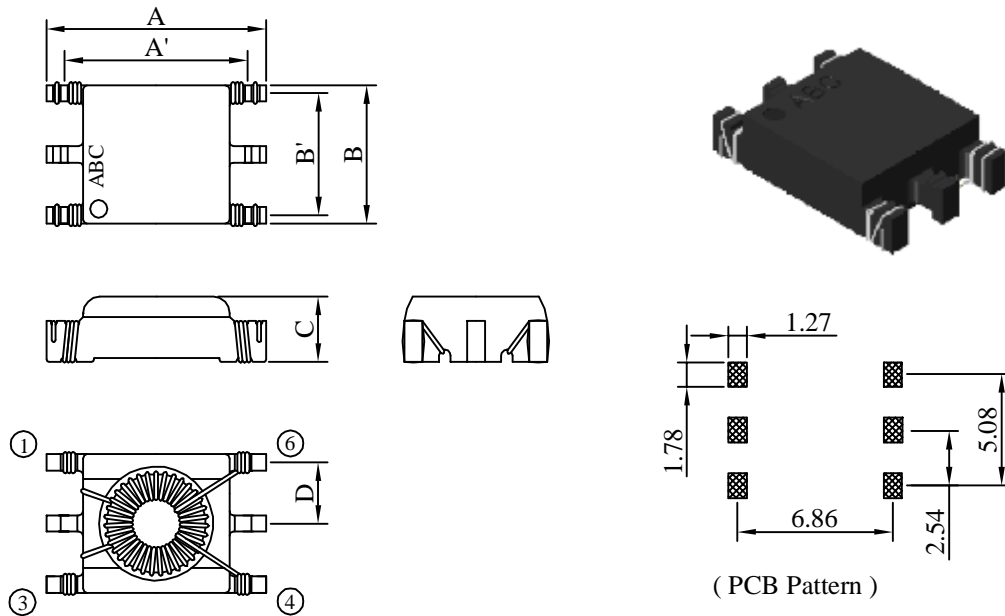


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0903□□□□2□-□□□		
		REV.	20121008-B	PAGE	1

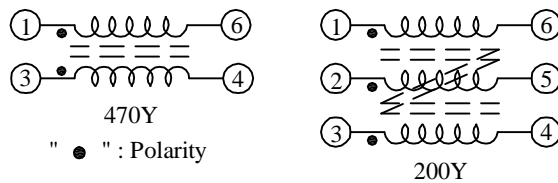
I . Configuration and dimensions :



Unit : m/m

A	A'	B	B'	C	D
9.20 max.	7.24 typ.	6.60 max.	5.08 typ.	2.50 max.	2.54 typ.

II . Schematic diagram :



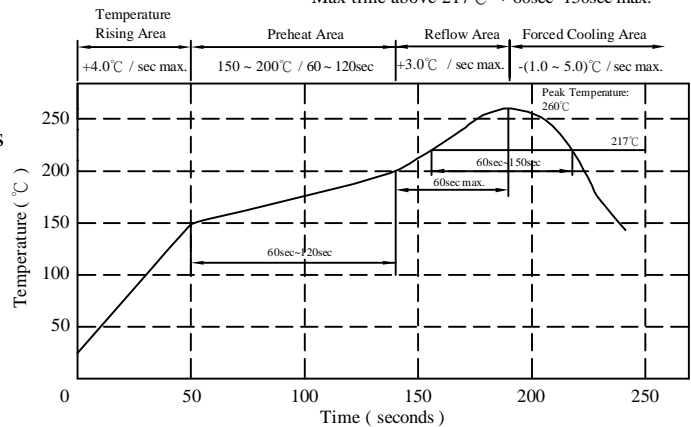
III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : H class
- c . Product weight : 0.20g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

IV . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+105°C
(Temp. rise included)
- c . Resistance to solder heat : 260°C .10 secs.

Peak Temp : 260°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.



AR-001C

SPECIFICATION FOR APPROVAL

REF. :

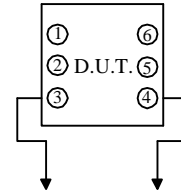
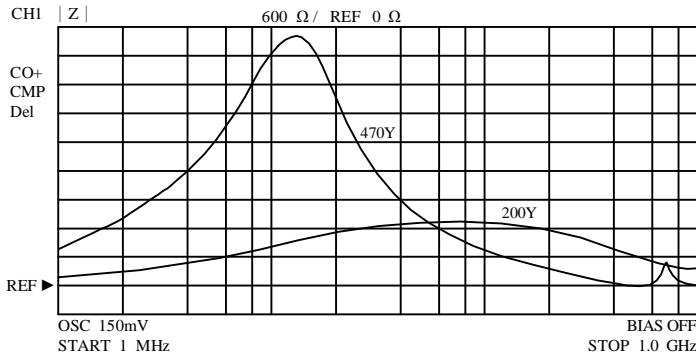
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0903□□□□2□-□□□		
		REV.	20121008-B	PAGE	2

V . Electrical characteristics :

Dwg. No.	L (uH) 100K/0.1V	LL (uH) 100K/0.02V	C (pF) 100K/0.02V	RDC (Ω) MAX.	Turns Ratio	Insertion Loss		Impedance (z)		HI-POT N-N
						Freq. range	dB	Freq. range	min (Ω)	
SF0903470Y2B-□□□	47.0 min.	0.18 ⁺⁰	20 ⁺⁰	0.4	1:1	1~100 MHz	20 ⁻⁰	10~ 30 MHz	1000	500 Vac 60 Hz 1 mA 1 min.
SF0903200Y2B-□□□	20.0 min.	0.10 ⁺⁰	18 ⁺⁰	0.4	1:1:1	30~300 MHz	20 ⁻⁰	30~100 MHz	800	

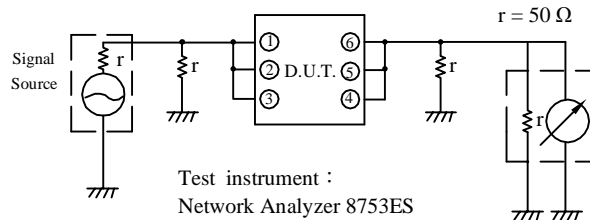
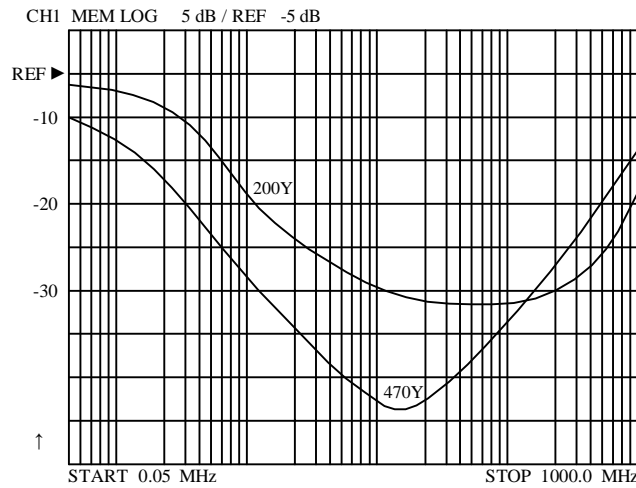
- 1). □ : Packaging information : □ Code 3). Electrical specifications at 25°C
 2). "-□□□" : Reference code

VI . Impedance VS Frequency :



Test instrument :
RF Impedance Analyzer HP4291A

VII . Curve :



Test instrument :
Network Analyzer 8753ES

AR-001C

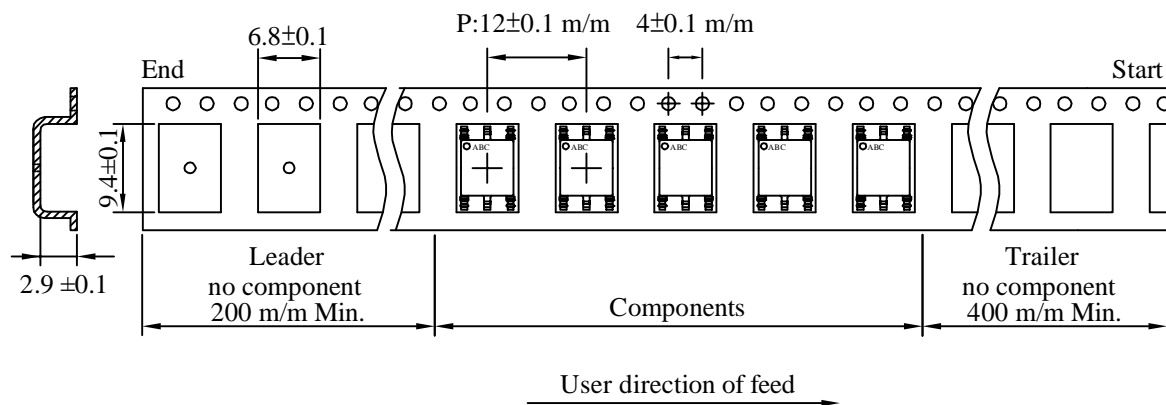
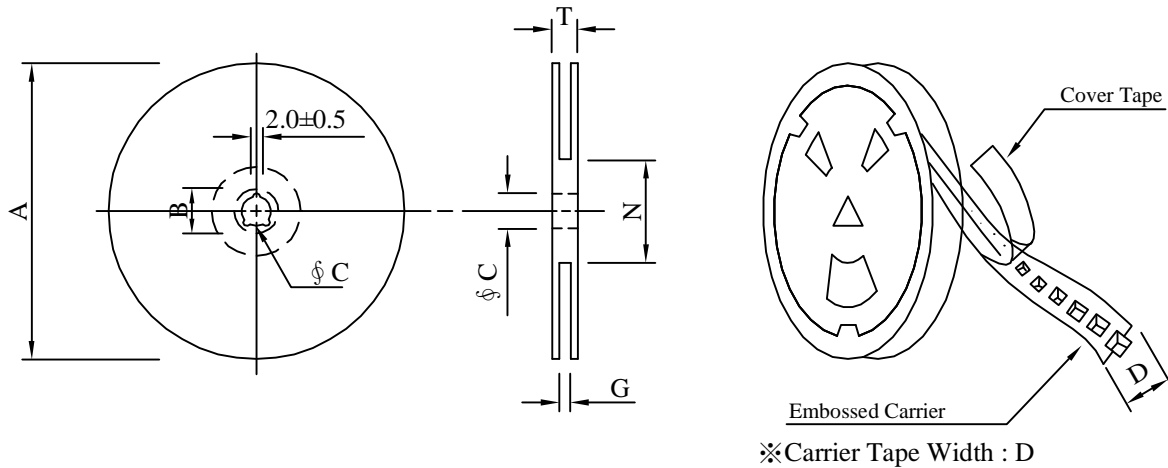
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0903□□□□2□-□□□		
		REV.	20121008-B	PAGE	3

VIII . Packaging information :

(1) Configuration



(2) Dimensions (EIA-481 Standard)

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13 ^{+0.5} _{-0.2}	16	18 ⁺⁰	50 ⁻⁰	22.4 ⁻⁰

(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	1,500	480	13 - 16	9,000	5.8	40 x 40 x 24

AR-001C

SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0903□□□□2□-□□□		
		REV.	20121008-B	PAGE	4

IX . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125°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: -40°C ~ 125°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: 105°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 : 260±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 : -40°C~105°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.

AR-001C