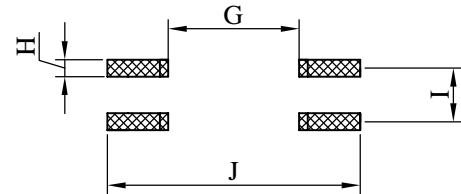
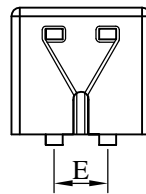
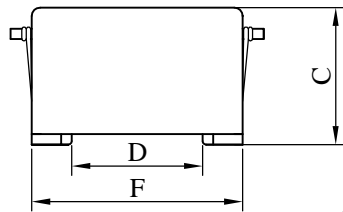
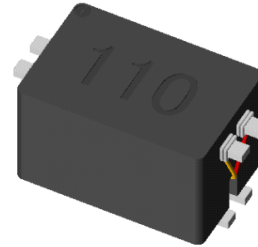
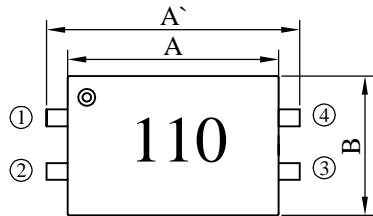


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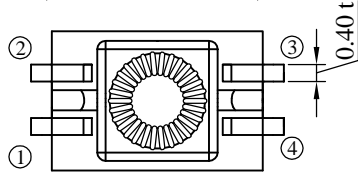
REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0503□□□□L□-□□□		
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I . Configuration and dimensions :



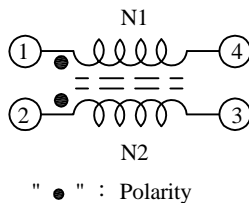
(PCB Pattern)



Unit : m/m

A'	A	B	C	D	E	F	G	H	I	J
6.00±0.3	5.00±0.3	3.30±0.3	3.30±0.2	3.10 typ.	1.27 typ.	5.00 typ.	2.70 typ.	0.60 ref.	1.27 ref.	6.40 ref.

II . Schematic diagram :



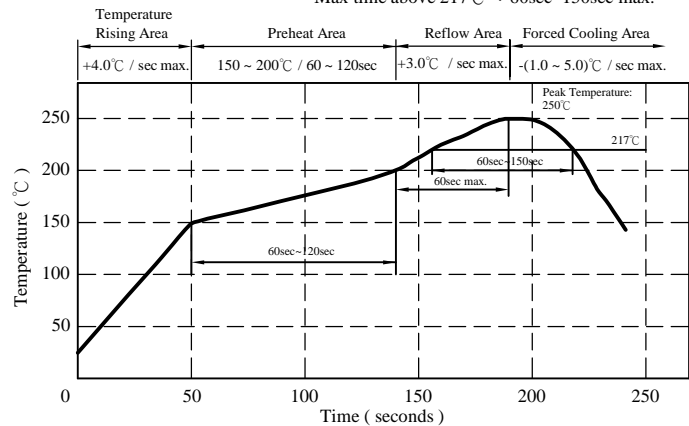
III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : F & H class
- c . Product weight : 0.10g (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 : 250°C . 10 secs.

Peak Temp : 250°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.



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REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0503□□□□L□-□□□		
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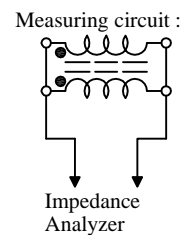
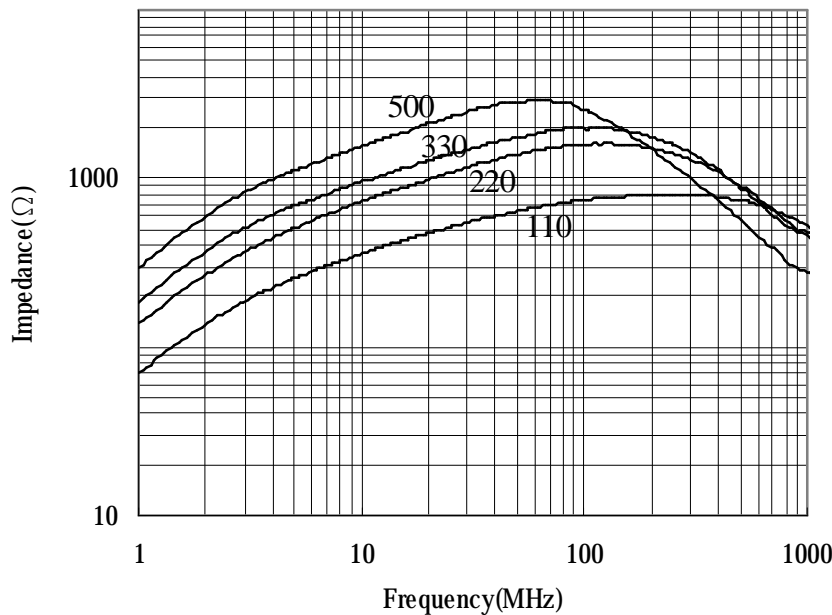
V . Electrical characteristics :

DWG No.	L1 , L2 @ 10KHz , 0.1 Vrms (μH)	FREQ. Range (MHz)	Impedance min. (Ω)	RDC(Ω) (Each Winding)		Rated Current(mA) max.
				max.	typ.	
SF0503110YL□-□□□	11.0 ^{+50%} _{-30%}	100~400	450	0.18	0.13	100
SF0503220YL□-□□□	22.0 ^{+50%} _{-30%}	40~250	900	0.23	0.17	100
SF0503330YL□-□□□	33.0 ^{+50%} _{-30%}	30~180	1000	0.27	0.20	100
SF0503500YL□-□□□	50.0 ^{+50%} _{-30%}	20~60	1200	0.32	0.24	100

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Rated voltage 50 Vdc / 100 Vdc(ref.)
- 5). Hi-Pot (N-N) : 500 Vac / 60 Hz , 3 mA / 1sec.
- 6). Rated current base on Temp. rise 25°C max.

VI . Curve :

Impedance VS. Frequency



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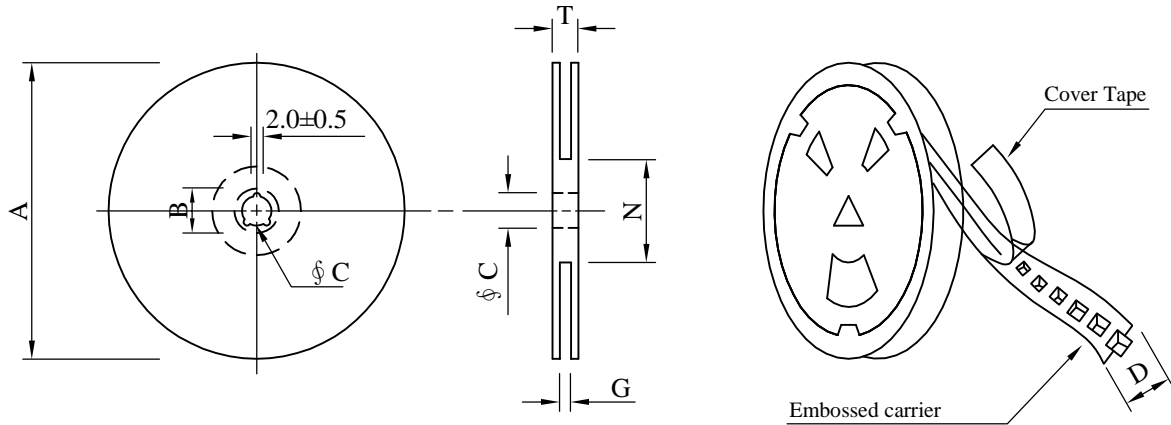
SPECIFICATION FOR APPROVAL

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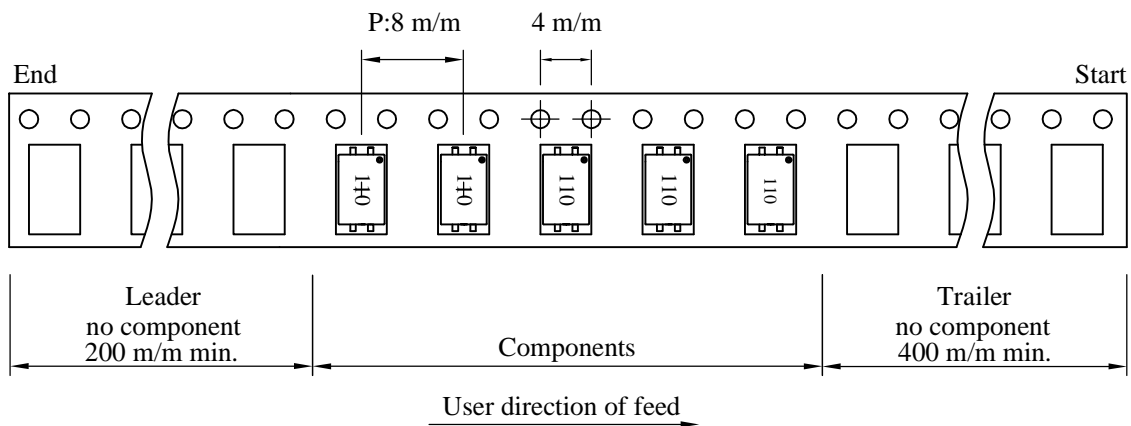
PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0503□□□□L□-□□□		
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VII . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	20.5
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	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	500	160	07 - 16	15,000	6.1	42 x 41 x 24
C	2,000	580	13 - 16	12,000	4.7	38 x 37 x 22

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0503□□□□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: 125℃ 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℃ ~ 125℃ 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: 105℃ 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 apperarence. 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 : 250±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℃~105℃ 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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