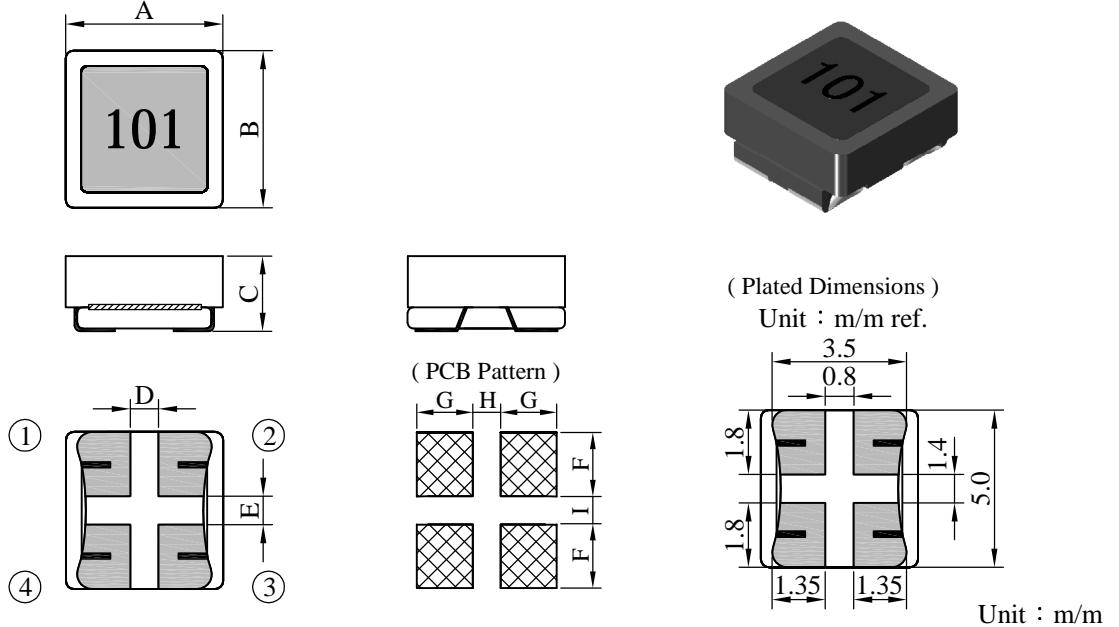


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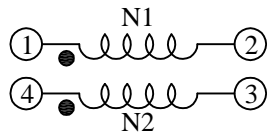
REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□		
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I . Configuration and dimensions :



II . Schematic diagram :

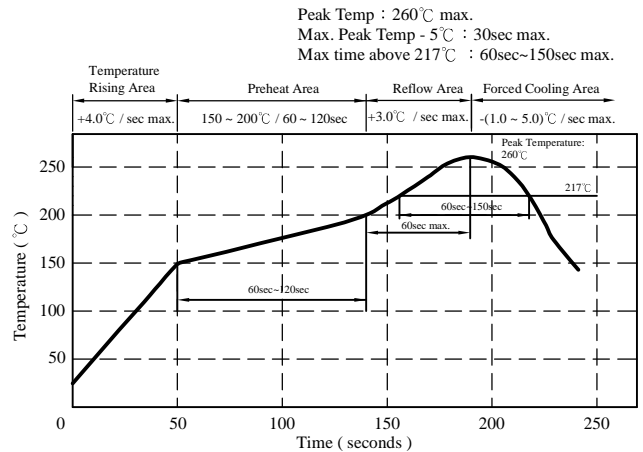


III . Description :

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

IV . General specification :

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



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REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□		
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V . Electrical characteristics :

DWG No.	Common mode impedance (at 100MHz) (KΩ)	Inductance (uH) ref.	IDC (A)	RDC (max.) (mΩ)	Impedance (KΩ)	Freq. range (MHz)
SF0502101YL□-□□□	0.10 ±35%	0.23	6.0	15.0	0.06 min.	90 ~ 900
SF0502251YL□-□□□	0.25 ±35%	0.55	5.0	20.0	0.12 min.	80 ~ 700
SF0502501YL□-□□□	0.50 ±35%	1.10	4.0	30.0	0.20 min.	60 ~ 300
SF0502102YL□-□□□	1.00 ±35%	2.50	2.0	45.0	0.40 min.	50 ~ 200
SF0502142YL□-□□□	1.40 ±35%	2.60	1.5	55.0	0.45 min.	40 ~ 160

- 1). □ : Packaging information : □ Code
- 2). "- □□□ " : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance Test Condition. : 100kHz / 0.1V
- 5). Rated voltage 50 Vdc
- 6). Withstand Voltage 125Vdc
- 7). Insulation Resistance 10MΩ min.
- 8). IDC base on Temp. rise 40°C typ.

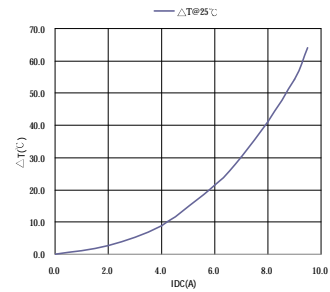
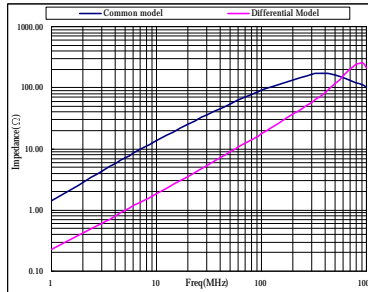
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SPECIFICATION FOR APPROVAL

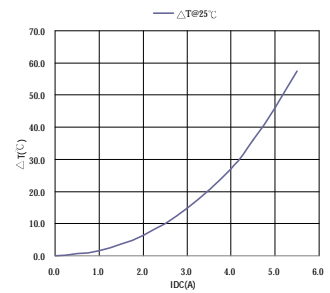
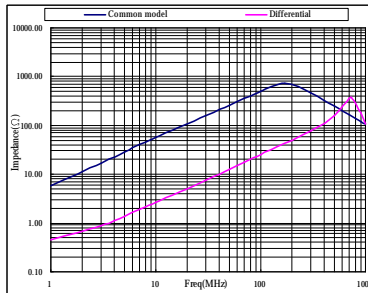
REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□	
		REV.	20160719-D	PAGE 3

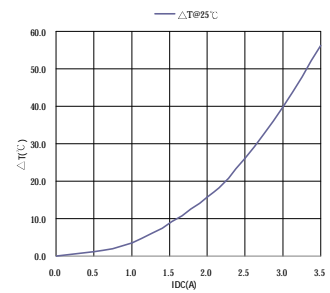
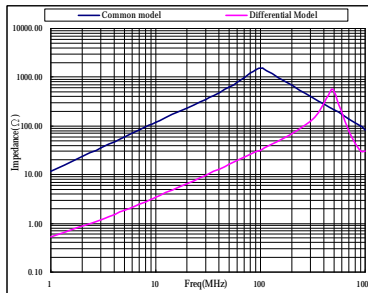
VI . Curve :
SF0502101YLB



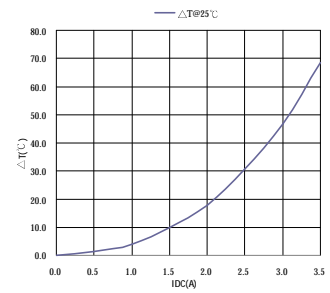
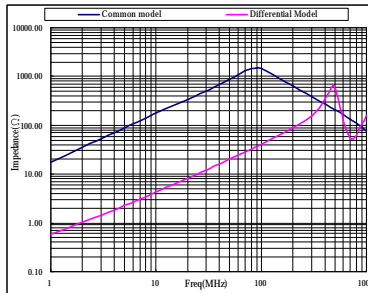
SF0502501YLB



SF0502102YLB



SF0502142YLB



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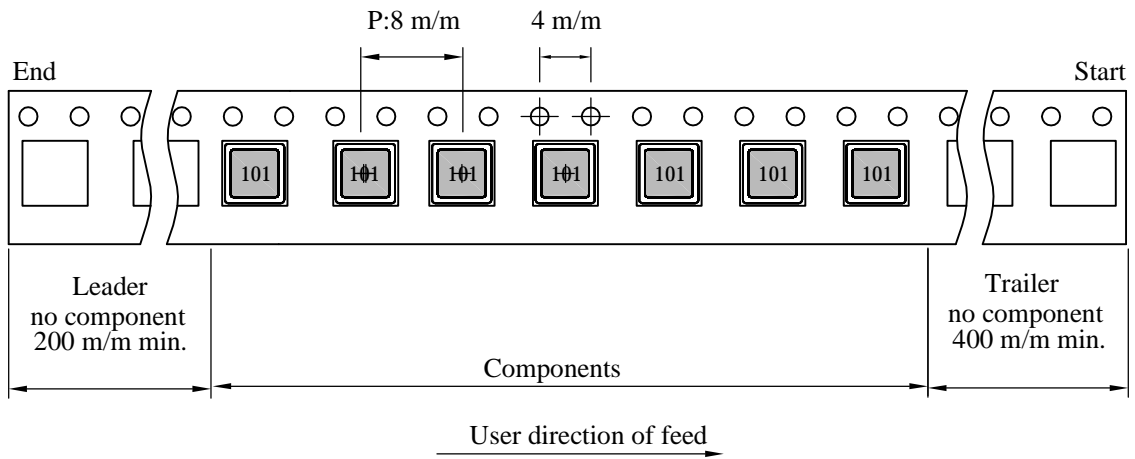
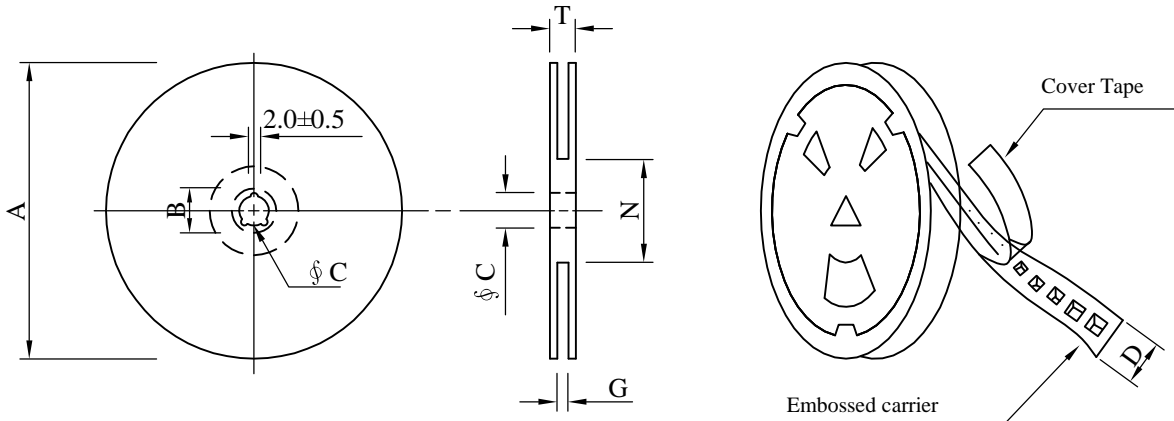
SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□		
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VII . Packaging information :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

(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	3,000	1,000	13 - 12	24,000	8.0	38 x 37 x 22

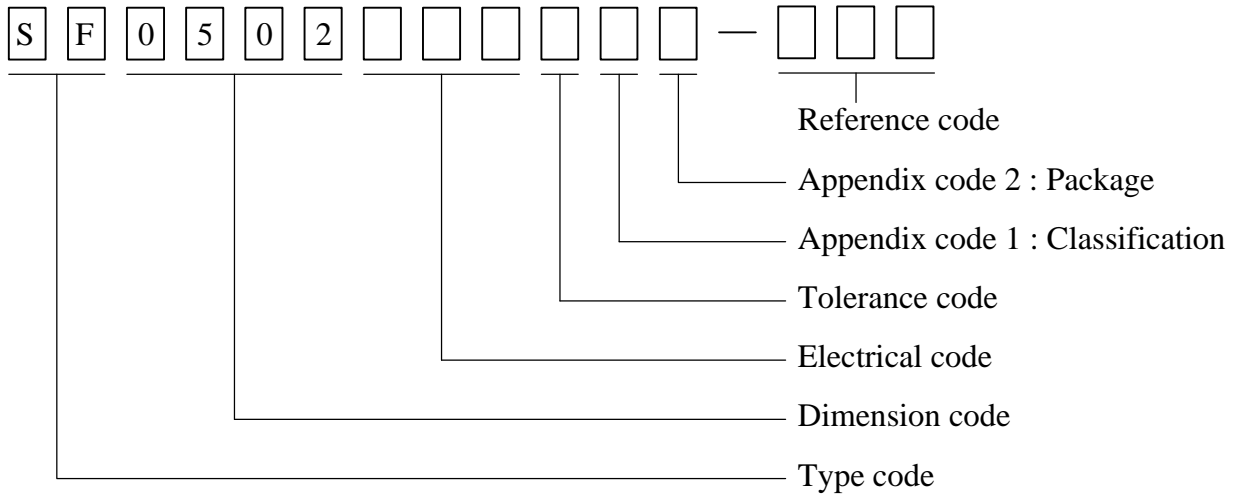
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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□		
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VII . Dwging number expression :



Appendix code 1 : Product Classification

Appendix code 2 : Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
B	T/R (Reel package)	UCT	Antistatic	Antistatic	3000 pcs	

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SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	SMD Line Filter	ABC'S DWG NO.	SF0502□□□YL□-□□□		
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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℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycles 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
5.External Visual	JESD22-B 101 & 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-B 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.Impedance shall not change more than ±50%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 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 or electrical damage. 2.Impedance shall not change more than ±50%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 260±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Seconds. 3.IR reflow times : 3 times.	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
10.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current	No electrical or mechanical damage
11.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current	Surface temperature rise is less than 40℃ typ.
12.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 time.	More than 95% soldering coverage min on terminations.
13.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.	1.No mechanical or electrical damage. 2.Impedance shall not change more than ±50%.
14.Withstanding Voltage Test	MIL-STD-202 Method 301 & User SPEC.	1.DC: 125 V (Winding to Winding) 2.Time : 1minutes	1.During the test no breakdown. 2.No mechanical or electrical damage.
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 times (Every side of sample drop 2 time)	1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.
16.Terminal Strength Test	IEC 60068-2-21	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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