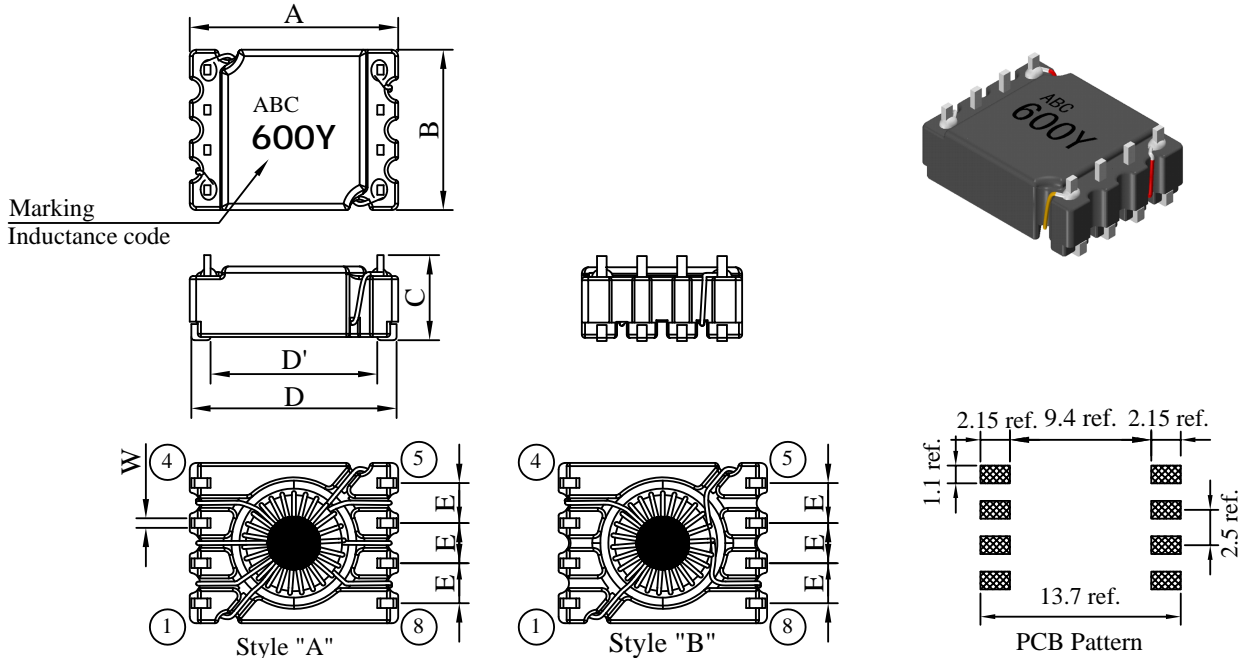


# SPECIFICATION FOR APPROVAL

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<b>PROD. NAME</b>	<b>SMD Line Filter</b>	<b>ABC'S DWG NO.</b>	SF1355□□□□S□-□□□		
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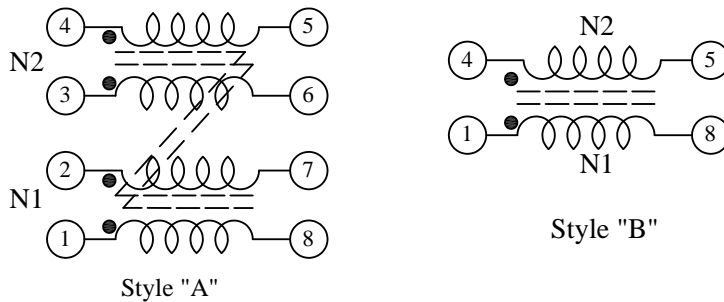
## I . Configuration and dimensions :



Unit : m/m

A	B	C	D	D'	E	W
13.0±0.3	10.2±0.3	5.4±0.3	13.30 max.	9.80 ref.	2.50±0.2	0.70±0.2

## II . Schematic diagram :

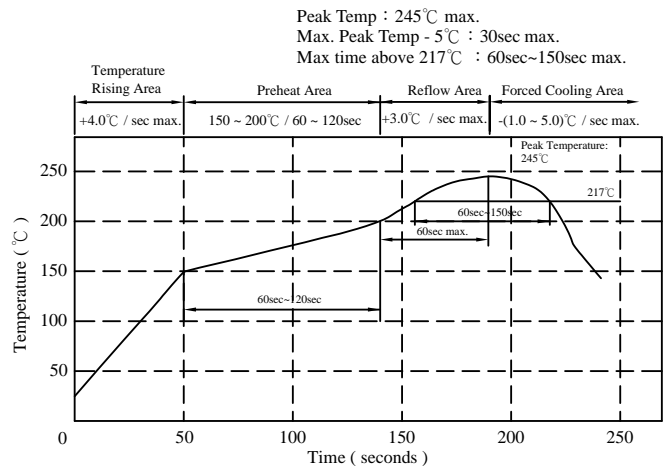


## III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : H class
- c . Product weight : 1.02g ( 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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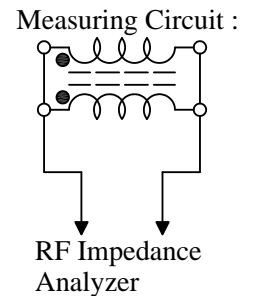
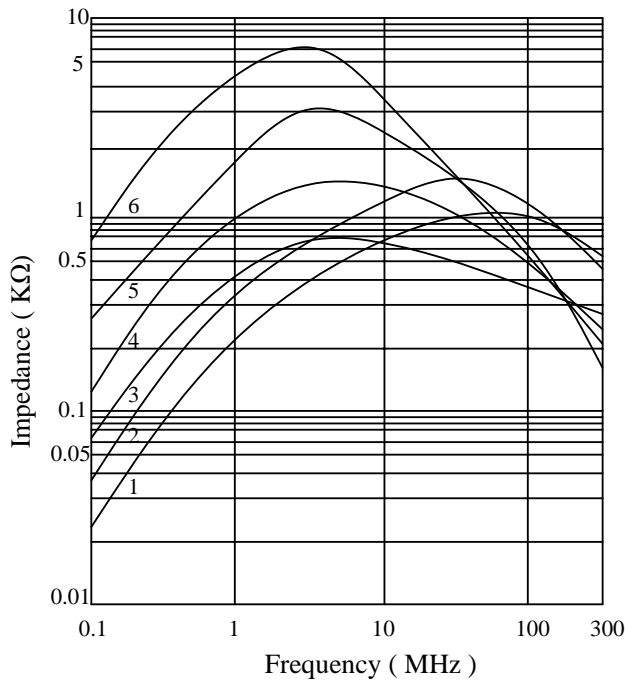
### V . Electrical characteristics :

Dwg No.	Inductance ( $\mu$ H) 0.1 V , 100 kHz		RDC N1 , N2 ( $\Omega$ )	Rated current (A)	HI-POT Test	Impedance ( $\Omega$ )	FREQ. Range (MHz)	Style
	N1 , N2	N1-N2						
SF1355350YSB	35 $\pm$ 35%	4 max.	0.035 max.	2.70 max.	500 Vac 60 Hz 3 mA 1 Minute	400 min.	5 ~ 250	B
SF1355600YSB	60 $\pm$ 35%	5 max.	0.065 max.	2.00 max.		600 min.	5 ~ 100	B
SF1355101YSB	100 $\pm$ 35%	15 max.	0.100 max.	0.70 max.		300 min.	1 ~ 50	A
SF1355251YSB	250 $\pm$ 35%	25 max.	0.150 max.	0.60 max.		600 min.	1 ~ 40	A
SF1355501YSB	500 $\pm$ 35%	35 max.	0.300 max.	0.40 max.		1200 min.	1 ~ 40	A
SF1355102YSB	1000 $\pm$ 35%	45 max.	0.400 max.	0.35 max.		2200 min.	0.5 ~ 10	A

- 1). Electrical specifications at 25°C
- 2). Temp. rise : 45°C max. at rated current

### VI . Impedance VS . Frequency :

- 6 : SF1355102YSB
- 5 : SF1355501YSB
- 4 : SF1355251YSB
- 3 : SF1355101YSB
- 2 : SF1355600YSB
- 1 : SF1355350YSB



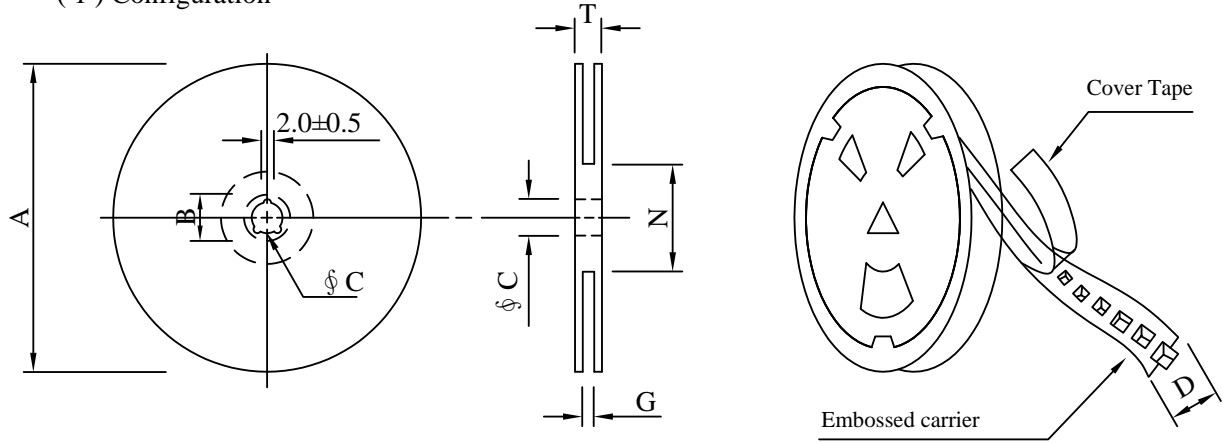
# SPECIFICATION FOR APPROVAL

REF. :

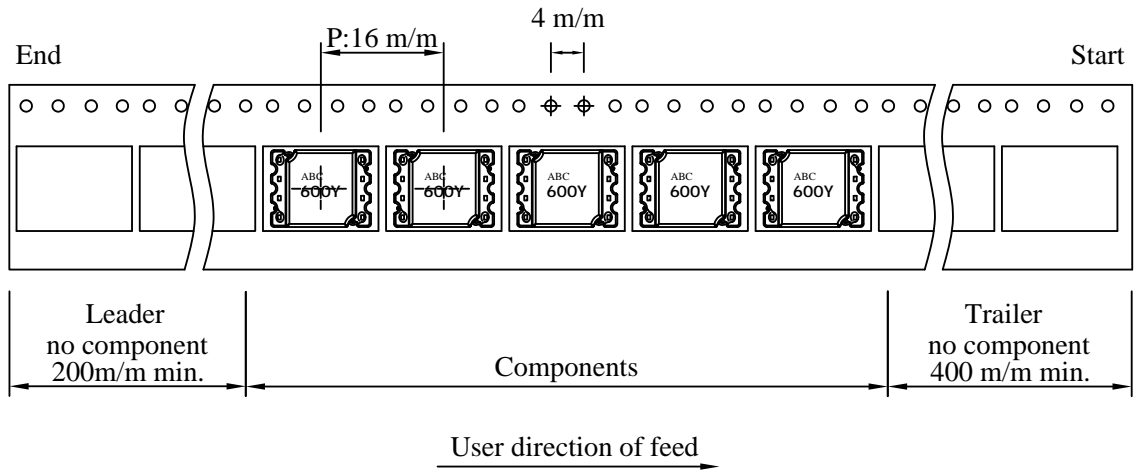
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## VII . Packaging information :

### ( 1 ) Configuration



※Carrier tape width : D



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 <sup>+0</sup>	60 <sup>-0</sup>	30.4

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

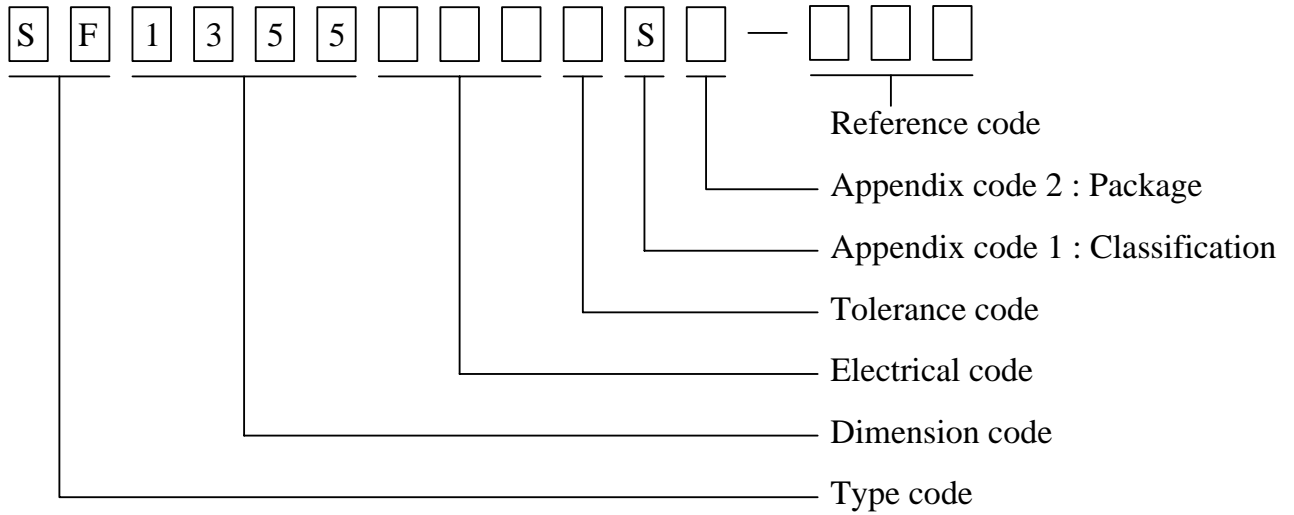
Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (kg)	Size (cm)
B	600	700	13 - 24	2,400	6.5	38 x 37 x 22

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VIII . 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	600 pcs	

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## IX . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 85℃ 2.Time:96±2 hours.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +85℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes	1.No mechanical or electrical damage. 2.Inductance 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.Inductance shall not change more than ±50%.
4.Operational Life	JESD22-A 108	1.Temperature: 80℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current	1.No mechanical or electrical damage. 2.Inductance 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 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 or electrical damage. 2.Inductance shall not change more than ±50%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 245±5℃. 2.Time ( temp. ≥ 217℃ ) : 60~150 Seconds. 3.IR reflow times : 3 times.	1.No mechanical or electrical damage. 2.Inductance 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.Rated current.	Surface temperature rise is less than 45℃ max.
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 seconds. 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℃~80℃ 2.Room temperature : 25℃.	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±50%.
14.Withstanding Voltage Test	MIL-STD-202 Method 301 & User SPEC.	1.AC: 500V (Winding to Winding) 2.Time : 1 minute	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 heigh of 1m 2.Drop total time : 6 times (Every side ofsample drop 2 times)	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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X . Change history :

DATE/REV.	DISCRIPTION	DRAWN	CHECKED	APPROVED
20160720-A	Released	Qiang Xiao	Heisen Li	Tnis Yin

AR-001C



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ABC ELECTRONICS GROUP