

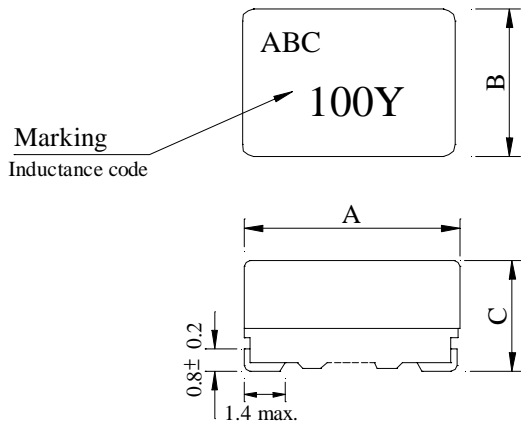
# SPECIFICATION FOR APPROVAL

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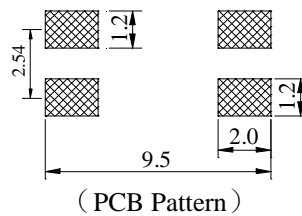
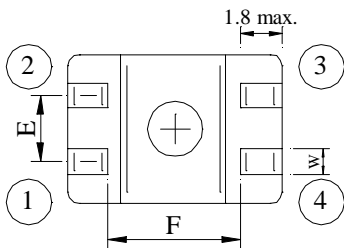
PAGE: 1

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0905□□□□L□
		ABC'S ITEM NO.	

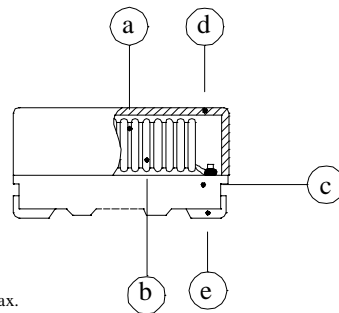
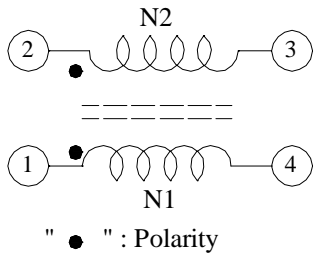
## I . CONFIGURATION & DIMENSIONS :



A :	9.20± 0.3	m / m
B :	6.00± 0.3	m / m
C :	5.00± 0.3	m / m
E :	2.54± 0.2	m / m
F :	5.70 ref.	m / m
W :	1.00± 0.1	m / m



## II . SCHEMATIC DIAGRAM :



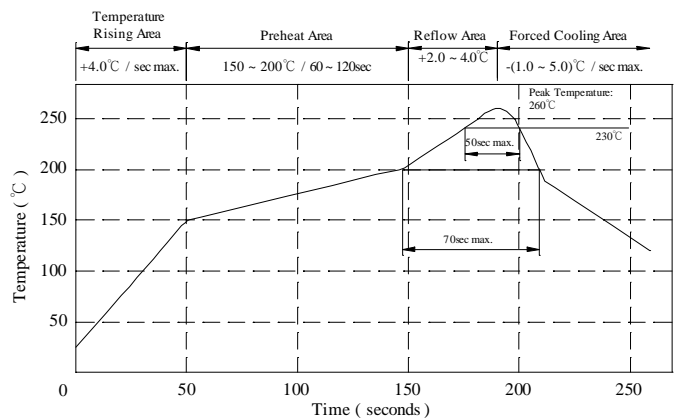
## III . MATERIALS :

- a . Core : Ferrite Toroidal core
- b . Wire : Enamelled copper wire ( class F )
- c . Base : LCP
- d . Case : LCP
- e . Terminal : Cu/Ni/Sn

Peak Temp : 260°C max.  
 Max time above 230°C : 50sec max.  
 Max time above 200°C : 70sec max.

## IV . GENERAL SPECIFICATION :

- a . Temp. rise : 45°C max.
- b . Storage temp. : -40°C ----+105°C
- c . Operating temp. : -40°C ----+85°C
- d . Resistance to solder heat : 260°C .10 secs.



AE-001A

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

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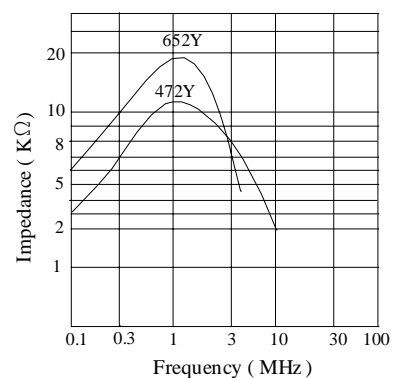
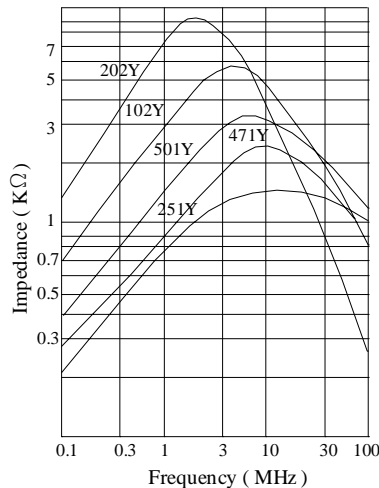
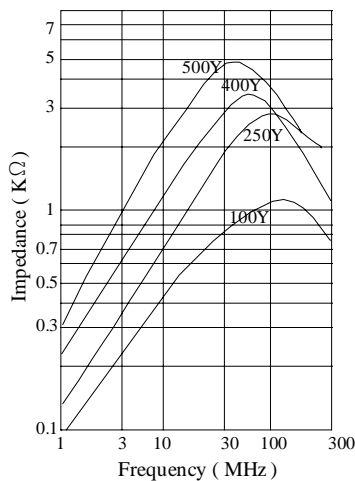
## V . ELECTRICAL CHARACTERISTICS :

Dwg. No.	Indductance L1 , L2 ( $\mu$ H )	Test condition	DC Resistance N1 , N2 ( $\Omega$ )	Nominal Voltage Vdc ( V )	Rated current ( A )	Impedance ( $\Omega$ )	Freq. Range ( MHz )
SF0905100YL□	10 $\pm$ 30%	0.1V,1KHZ	0.08 MAX.	50	1.6	200 MIN	20 ~ 300
SF0905250YL□	25 $\pm$ 30%	0.1V,1KHZ	0.16 MAX.	50	1.0	600 MIN	20 ~ 150
SF0905400YL□	40 $\pm$ 30%	0.1V,1KHZ	0.25 MAX.	50	0.9	800 MIN	20 ~ 100
SF0905500YL□	50 $\pm$ 30%	0.1V,1KHZ	0.32 MAX.	50	0.8	1500 MIN	20 ~ 100
SF0905251YL□	250 $\pm$ 50%	5mV,100KHZ	0.13 MAX.	50	1.2	600 MIN	3 ~ 20
SF0905471YL□	470 $\pm$ 50%	5mV,100KHZ	0.14 MAX.	50	1.1	1000 MIN	2 ~ 20
SF0905501YL□	500 $\pm$ 50%	5mV,100KHZ	0.15 MAX.	50	1.0	1000 MIN	1 ~ 20
SF0905102YL□	1000 $\pm$ 50%	5mV,100KHZ	0.31 MAX.	50	0.8	1500 MIN	1 ~ 15
SF0905202YL□	2000 $\pm$ 50%	5mV,100KHZ	0.42 MAX.	50	0.6	3000 MIN	1 ~ 5
SF0905472YL□	4700 $\pm$ 50%	5mV,100KHZ	0.90 MAX.	50	0.4	4000 MIN	0.3 ~ 3
SF0905652YL□	6500 $\pm$ 50%	5mV,100KHZ	1.05 MAX.	50	0.3	5000 MIN	0.3 ~ 2

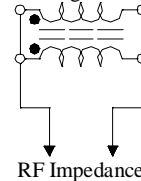
※ HI-Pot test ( N1-N2 ) : 500Vac / 60Hz , 3mA , 3sec.

※ Test equipment : Inductance 100Y ~ 500Y ( HP4274A ) ; 251Y ~ 652Y ( HP4194A )  
 Impedance 100Y ~ 202Y ( HP4291A ) ; 472Y ~ 652Y ( HP4194A )

## VI . IMPEDANCE VS . FREQUENCY :



Measuring circuit :



AE-001A

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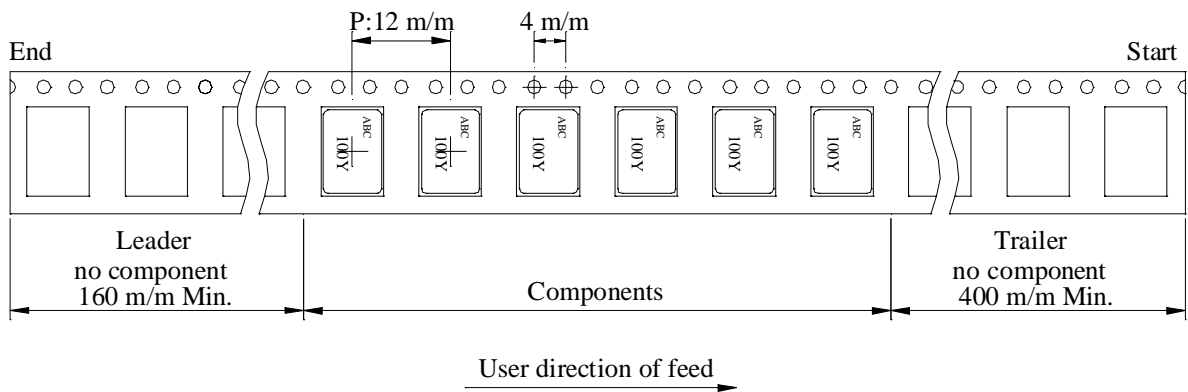
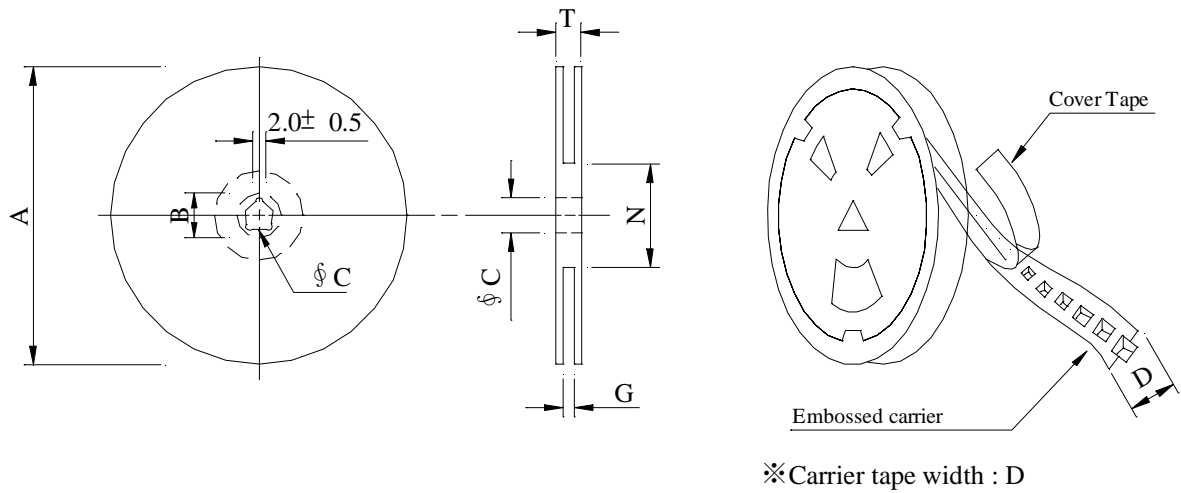
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PAGE: 3

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## VII . PACKAGING INFORMATION :

### ( 1 ) Configuration



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21± 0.8	13	16	18 <sup>+0</sup>	50 <sup>-0</sup>	22.4

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

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SF0905	1,000	600	13 - 16	6,000	8.0	40 x 40 x 24

AE-001A

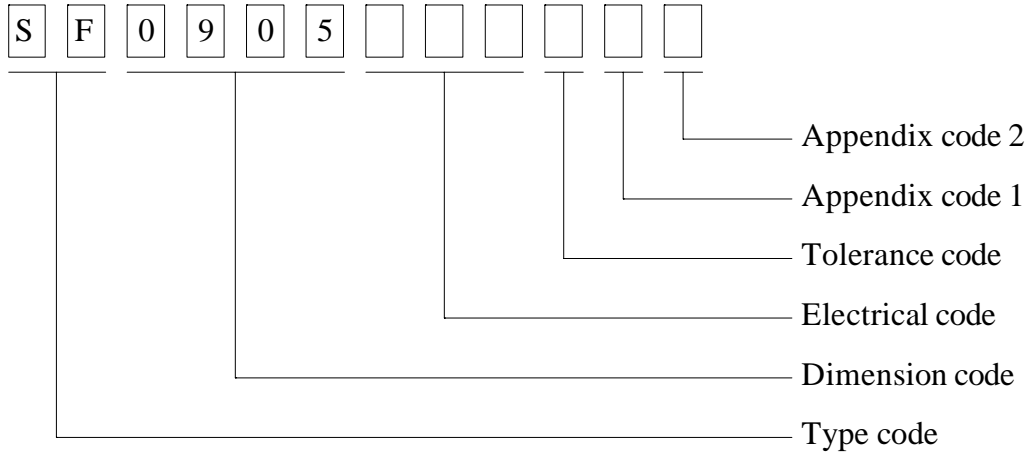
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PAGE: 4

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VIII . DWG EXPRESSION :



- Appendix code 1 : S : Standard products  
 A ~ K , M ~ R , T ~ Z : Special products  
 L : Standard Lead Free products  
 1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner Package	Inner Package Q'TY	Remark
A	Empty	Empty	
B	T / R ( Reel Package )	1000 pcs	

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

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**IX . RELIABILITY TEST :**

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : $150 \pm 25^{\circ}\text{C}$ for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : $260 \pm 5^{\circ}\text{C}$ Flux : Rosin Dip time : $4 \pm 1$ seconds						
Thermal shock test ( Temp. cycle )	Inductance shall not change more than $\pm 20\%$	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;"><math>-25 \pm 2^{\circ}\text{C}</math> 30 minutes</td> </tr> <tr> <td style="text-align: center; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;"><math>85 \pm 2^{\circ}\text{C}</math> 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	$-25 \pm 2^{\circ}\text{C}$ 30 minutes	Room temp. 15 minutes	→	$85 \pm 2^{\circ}\text{C}$ 30 minutes
Room temp. 15 minutes	→	$-25 \pm 2^{\circ}\text{C}$ 30 minutes						
Room temp. 15 minutes	→	$85 \pm 2^{\circ}\text{C}$ 30 minutes						
Humidity Resistance test		Temperature : $40 \pm 2^{\circ}\text{C}$ Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test		Temperature : $80 \pm 2^{\circ}\text{C}$ Applied current : Per spec. Time : 500 hours						

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO. ABC'S ITEM NO.	SF0905 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> L <input type="checkbox"/>
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X . UL CARD :

OBMW2	June 11, 1990		
Component-Magnet Wire			
TOTOKU ELECTRIC CO LTD		E79029 (S) ( B-cont, from A card )	
MZW	Polyurethane	Polyvinyl Butyral	— 130
LOCKW	Polyurethane	Polyvinyl	— 130
PESVW	Polyester	Polyvinyl	— 155
EILOCKW	Polyurethane	Modified Epoxy	— 200
SF-BW	Modified Polyester		MW26-C 155
SF.H EIW	Modified Polyesteramide		— 180
THW	Polyesteramide	Polyamideimide	MW35C 220
LOCK Y	Polyurethane	Polyvinyl	— 130
Report: May 9, 1983.			
71507702 H3108		(Cont. on C card) D11 / 0096640	
Underwriters Laboratories Inc. ®			

SUMITOMO CHEMICAL CO LTD		E54705 (M)	
5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN			
Mtl Dsg	Col	Min Thk mm	UL94 Flame Class
			Elec
			RTI with Imp
			Mech w/o Imp
			H W I
			H A I
			H V T R
			D 4 9 5
			C T I
Liquid crystal polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets, (Contd)			
E4008, E400X	NC, BK	0.30	94V-0
		0.75	94V-0
		1.5	94V-0
		3.0	94V-0
E4008	NC, WT, BK	0.30	94V-0
		0.75	94V-0
		1.5	94V-0
		3.0	94V-0
E4010	NC, BK	0.30	94V-0
		0.75	94V-0
		1.5	94V-0
		3.0	94V-0
E400(Y)L, E4008L	NC, BK	0.30	94V-0
		0.75	94V-0
		1.5	94V-0
		3.0	94V-0
E4810	NC, BK	0.30	94V-0
		0.75	94V-0
		1.5	94V-0
		3.0	94V-0
(X) Denotes any number 1 thru 9.			
(Y) Denotes any number 1 thru 7.			

AE-001A

