

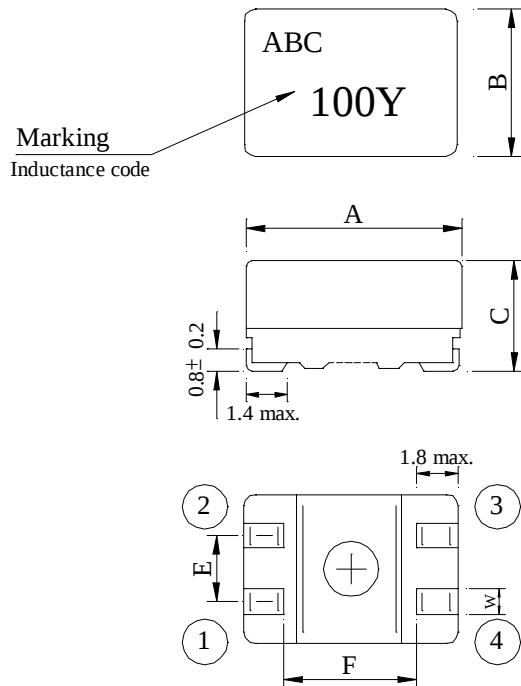
SPECIFICATION FOR APPROVAL

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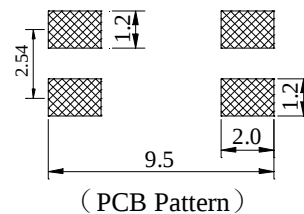
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PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0905□□□□L□
		ABC'S ITEM NO.	

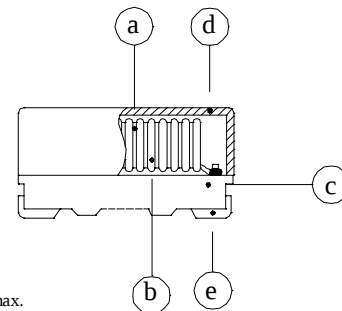
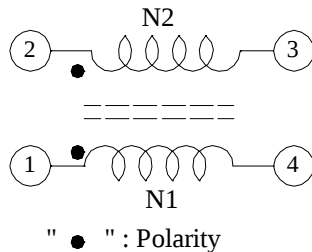
I . CONFIGURATION & DIMENSIONS :



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 :



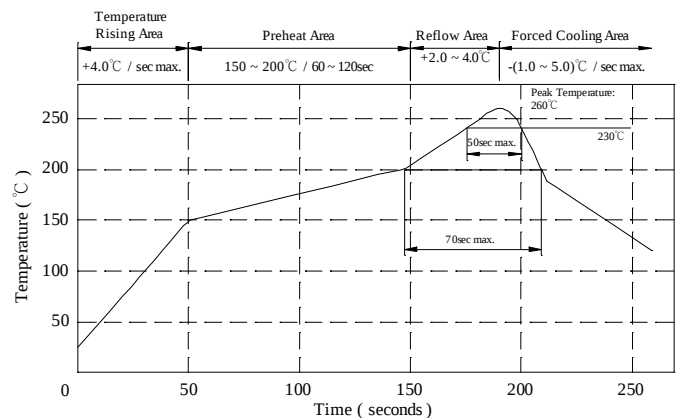
III . MATERIALS :

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

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.

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



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NAME		ABC'S ITEM NO.	

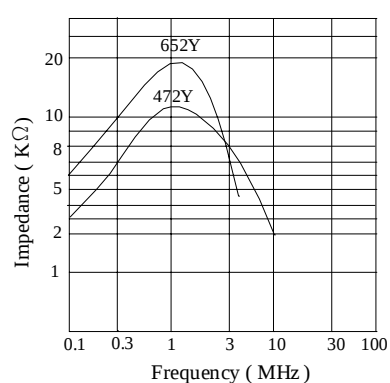
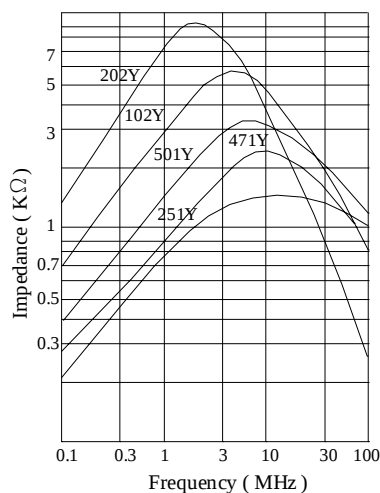
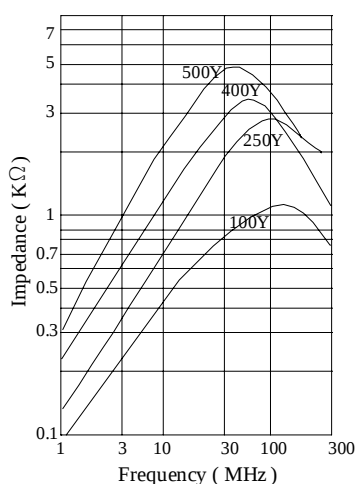
V . ELECTRICAL CHARACTERISTICS :

Dwg. No.	Indductance L1 , L2 (μ H)	Test condition	DC Resistance N1 , N2 (Ω)	Nominal Voltage Vdc (V)	Rated current (A)	Impedance (Ω)	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

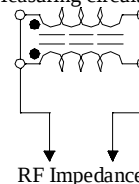
※ HI-Pot test (N1-N2) : 500Vac / 60Hz , 3mA , 3sec.

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

VI . IMPEDANCE VS . FREQUENCY :



Measuring circuit :



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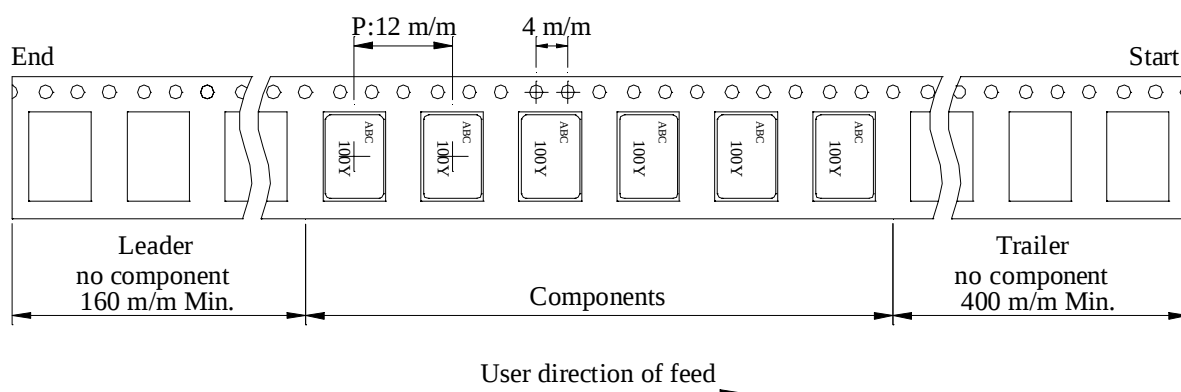
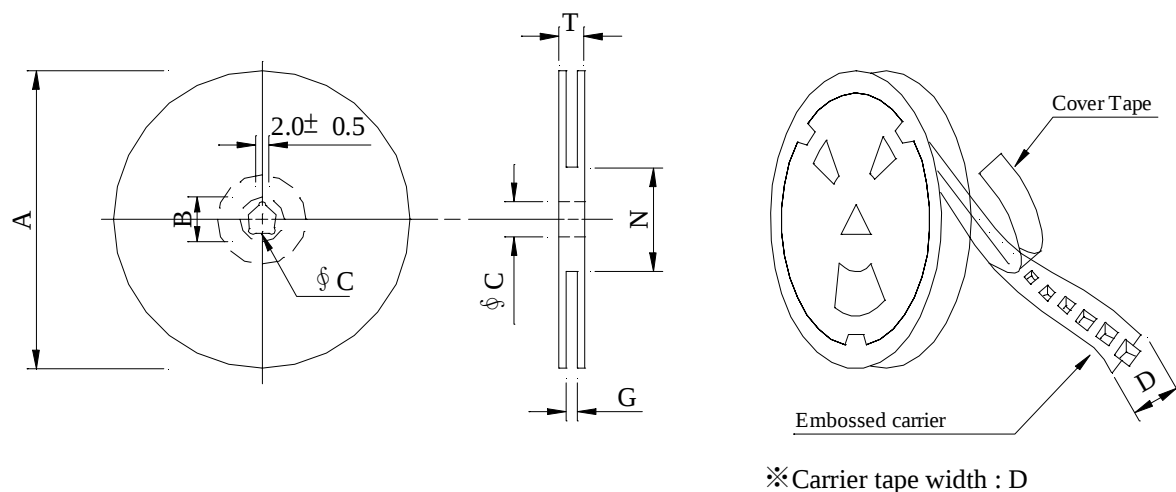
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VII . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21± 0.8	13	16	18 ⁺⁰	50 ⁻⁰	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

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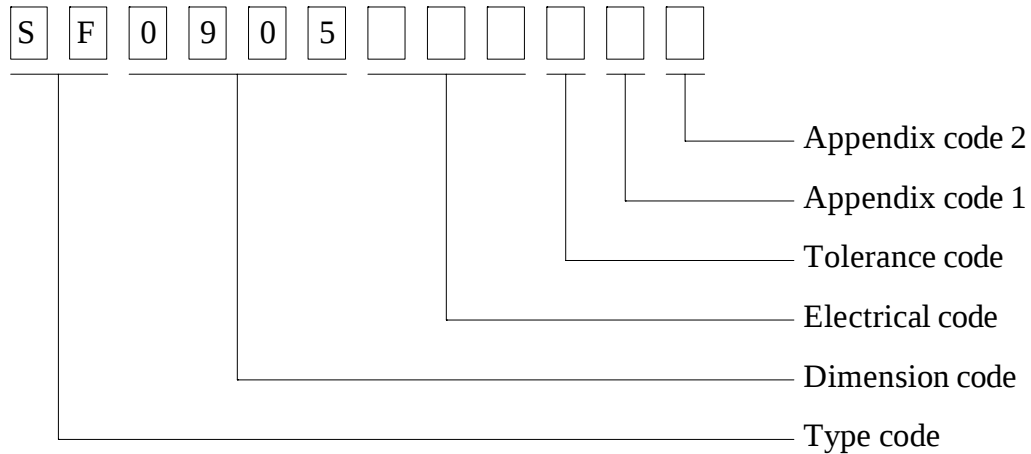
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VIII . DWG EXPRESSION :



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	

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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 ± 1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than $\pm 20\%$	Room temp. $\longrightarrow$ $-25 \pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Room temp. $\longrightarrow$ $85 \pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Total : 50 cycles
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

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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	130
LOCKW	Polyurethane	Butyral	130
PESVW	Polyester	Polyvinyl	155
ELOCKW	Polyurethane	Polyvinyl	200
		Modified	
		Epoxy	
SF-BW	Modified	MW26-C	155
	Polyester		
SF.H EIW	Modified		180
	Polyesterimide		
THW	Polyesterimide	Polyamideimide	220
LOCK Y	Polyurethane	Polyvinyl	130
Report: May 9, 1983.			
71507702 H3108		Underwriters Laboratories Inc. ®	
		(Cont. on C card)	
		D11 / 0096640	

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 Mech with Imp	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	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4008	NC, WT, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E4010	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E400(Y)L, E4008L	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4810	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	0	4	—	—	—
		1.5	94V-0	130	130	130	0	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
(X) Denotes any number 1 thru 9.											
(Y) Denotes any number 1 thru 7.											

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