

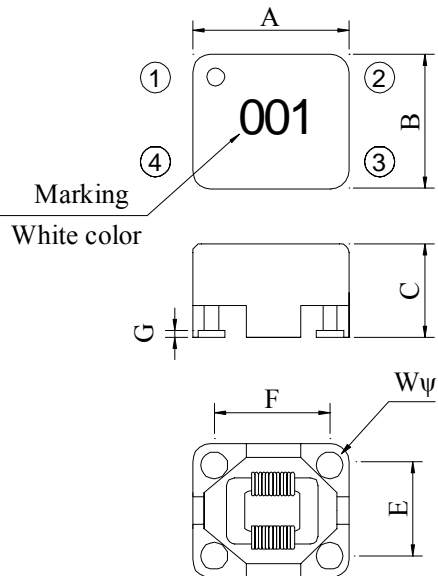
SPECIFICATION FOR APPROVAL

REF : 20070803-A

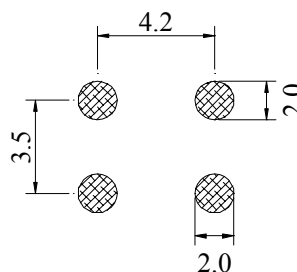
PAGE: 1

PROD. NAME	SMD LINE FILTER	ABC'S DWG NO.	SF0603□□□□L□-□□□
		ABC'S ITEM NO.	

. CONFIGURATION & DIMENSIONS :

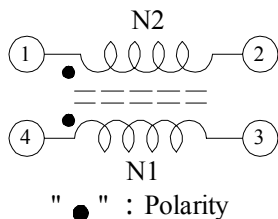


A :	5.80±0.30	m / m
B :	5.00±0.30	m / m
C :	3.50 max.	m / m
E :	3.50 typ.	m / m
F :	4.20 typ.	m / m
G :	0.30 min.	m / m
Wψ :	1.20±0.20	m / m



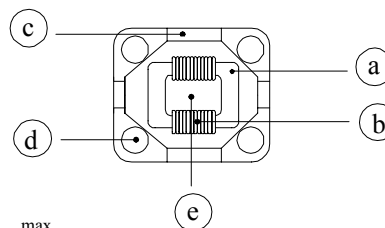
(PCB Pattern Suggestion)

. SCHEMATIC DIAGRAM :

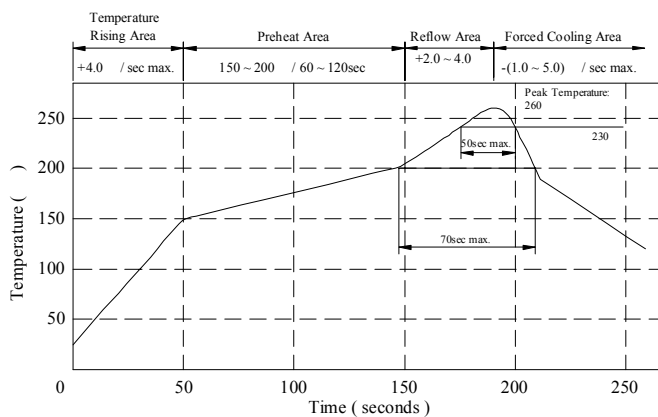


. MATERIALS :

- a . Core : Ferrite core
- b . Wire : Enamelled copper wire
- c . Base : DAP 9100F base
- d . Terminal : Cu / Ni /Sn
Ni plating 1.5 um min.
Sn plating 7 um min. after soldering
- e . Adhesive : Epoxy resin
- f . Remark : Products comply with RoHS' requirements



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



. GENERAL SPECIFICATION :

- a . Temp. rise : 40 max. at rated current
- b . Storage temp. : -40 ----+120
- c . Operating temp. : -40 ----+125
(included Temp. rise)
- d . Resistance to solder heat : 260 .10 secs.

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20070803-A

PAGE: 2

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. ELECTRICAL CHARACTERISTICS :

DWG No.	L1 , L2 (μH) 0.1V/1MHz	Impedance (Z)	RDC (mΩ max.)	HI-POT Test
SF0603001YL□-□□□	1.00±25%	300±25%	25	240 VDC 60 Hz 1 mA 2 sec
SF0603002YL□-□□□	2.80±25%	800±25%	100	
SF0603003YL□-□□□	3.40±25%	1000±25%	150	
SF0603004YL□-□□□	0.48±25%	250±40%	25	
SF0603005YL□-□□□	1.50±25%	1000±40%	100	
SF0603006YL□-□□□	2.30±25%	1500±40%	150	

- 1). Packing information : A : Bulk B : Taping Reel
- 2). "-□□□" : Reference code
- 3). Test equipment : Inductance (WK3260B)
RDC (CH-502AC)
Impedance (E4991A)

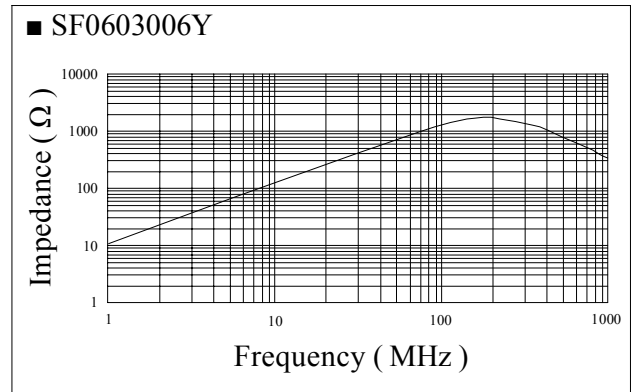
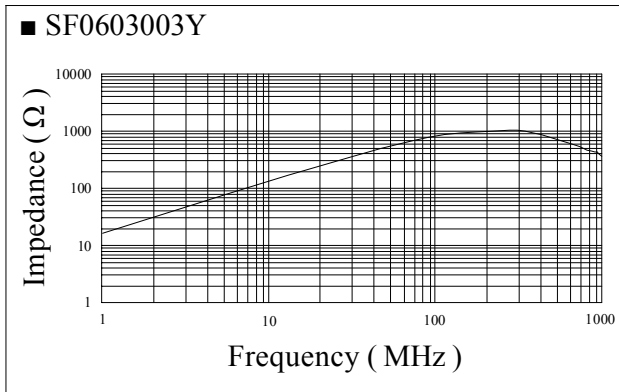
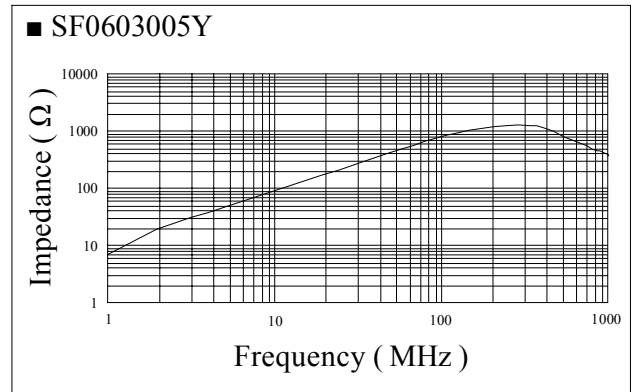
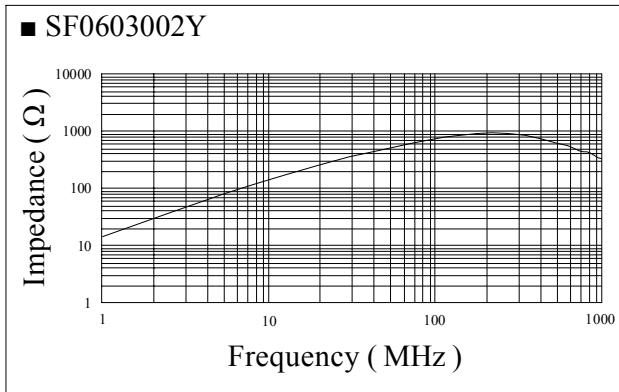
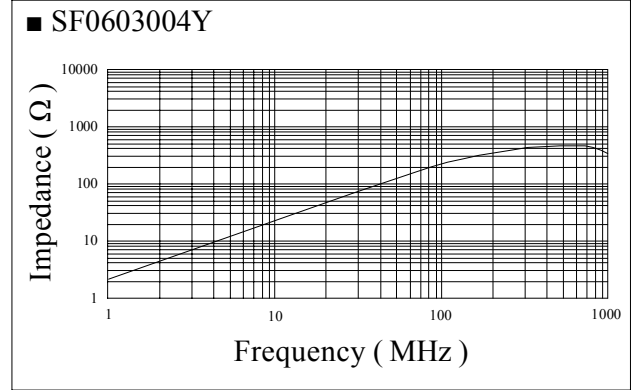
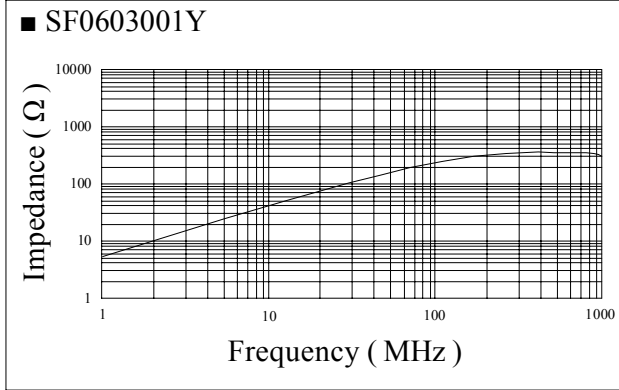
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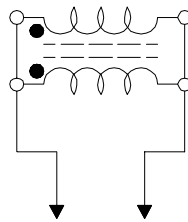
PAGE: 3

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. IMPEDANCE CURVE :



Measuring Circuit :



RF Impedance Analyzer

AR-001A

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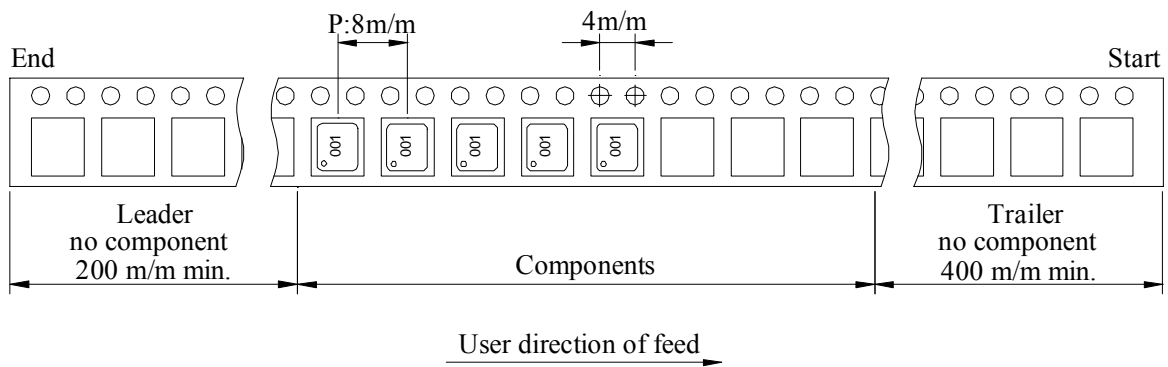
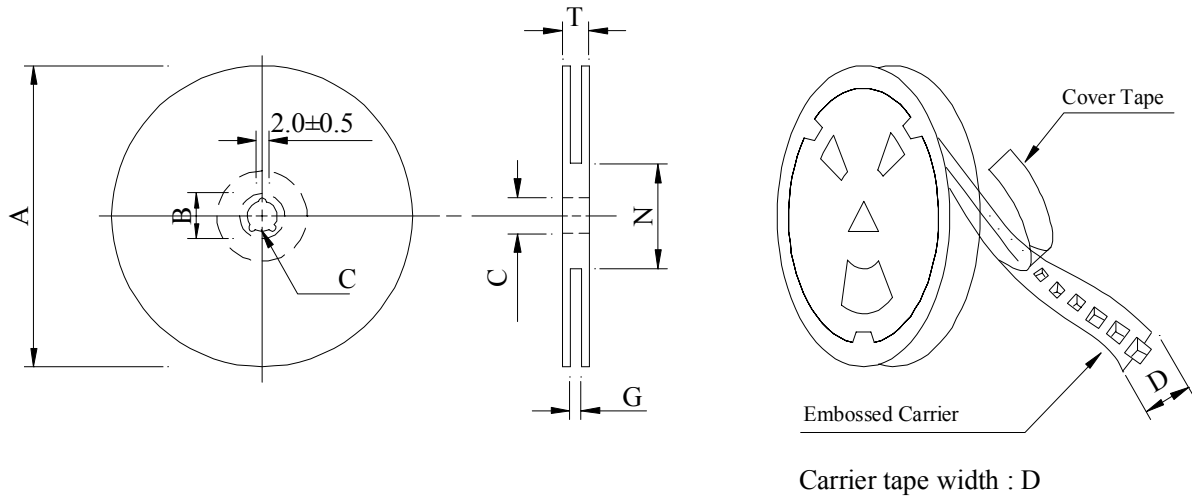
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PAGE: 4

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PACKAGING INFORMATION

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	18.4

(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)
SF0603	600	200	07 - 12	24,000	8.0	42 x 41 x 24

AR-001A

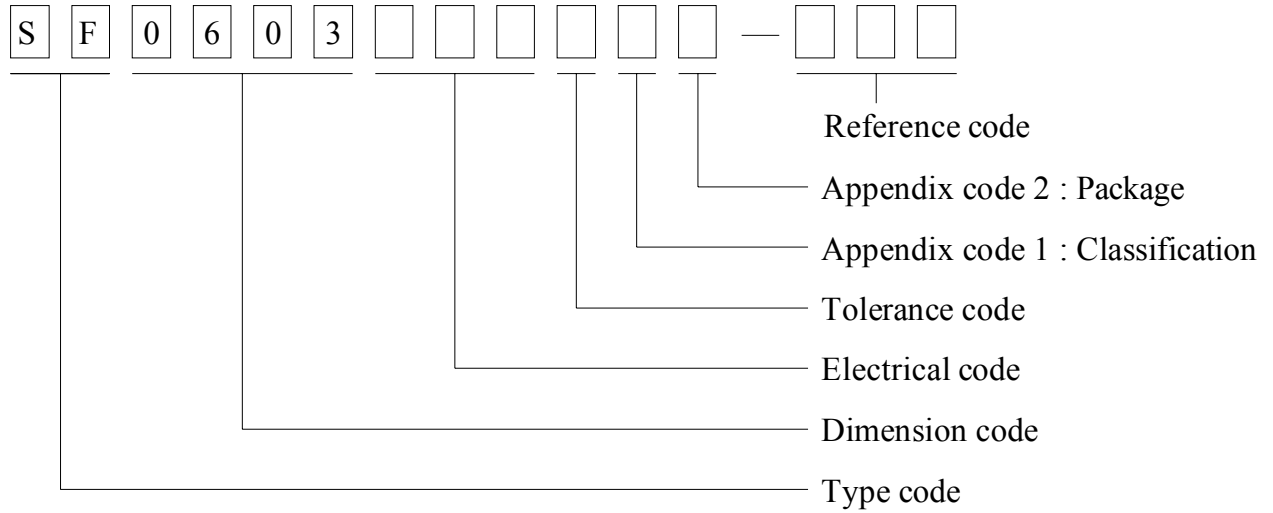
SPECIFICATION FOR APPROVAL

REF : 20070803-A

PAGE: 5

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. DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

L : Lead Free Standard products comply with RoHS' requirements

1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

Code	Inner Package	Inner Package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel Package)	600 pcs	

SPECIFICATION FOR APPROVAL

REF : 20070803-A

PAGE: 6

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. RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	<table style="margin: auto;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">$\frac{-25\pm 2}{30 \text{ minutes}}$</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">$\frac{85\pm 2}{30 \text{ minutes}}$</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	$\frac{-25\pm 2}{30 \text{ minutes}}$	Room temp. 15 minutes	→	$\frac{85\pm 2}{30 \text{ minutes}}$
Room temp. 15 minutes		→	$\frac{-25\pm 2}{30 \text{ minutes}}$					
Room temp. 15 minutes		→	$\frac{85\pm 2}{30 \text{ minutes}}$					
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test	Temperature : 80±2 Applied current : Per spec. Time : 500 hours							

AR-001A



SPECIFICATION FOR APPROVAL

REF : 20070803-A

PAGE: 8

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QMFZ2											
Component-Plastics											
PHILLIPS PETROLEUM CO										E54700 (N)	
PLASTICS TECHNICAL CENTER, BARTLESVILLE OK										(A card)	
OK 74004											
		Min	UL94	Elec	RTI		H	H	H	D	
Mil Deg	Col	Thk	Flame		Mech		W	A	V	4	C
		mm	Class		with	w/o	I	I	T	9	T
					imp	imp			R	5	I
Polyphenylene sulfide (PPHS) glass reinforced, designated "RYTON", furnished in the form of pellets											
R-4	NC	0.38	94V-0	50	50	50				—	—
		0.71	94V-0	200	200	200	4	1			—
		1.47	94V-0	220	200	220	0	0			—
		1.73	94-5V	220	200	220					
		3.05	94V-0,	220	200	220	0	0	4	7	4
			94-5V								
		6.10	94V-0,	220	200	220	0	0	—	—	—
			94-5V								
R-7	NC	0.71	94V-0	200	200	200	1	0	—	—	—
R-7 02	BK	1.47	94V-0	220	220	220	1	0			
R-7 03	TN	3.05	94V-0	220	220	220	1	0	0	5	3
		6.10	94V-0	220	220	220	—	—			

AR-001A

