



## Features

- Current rating up to 2.7 A
- Inductance range: 35 to 1000  $\mu$ H
- Frequency range to 250 MHz
- RoHS compliant\*

## Applications

- EMI suppression

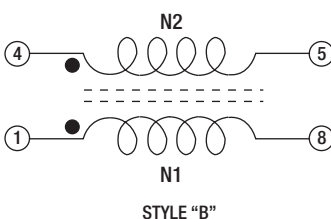
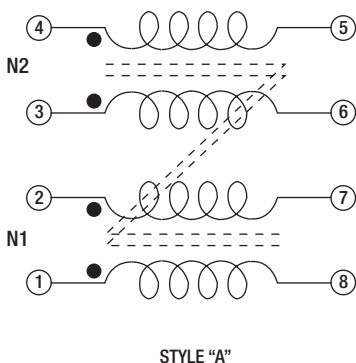
# SRF1306 Series - Line Filter

## Electrical Specifications @ 25 °C

Part Number	L ( $\mu$ H) *	Leakage Ind. ( $\mu$ H) Max.	DCR ( $\Omega$ ) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)		Electrical Schematic
						Freq. Range (MHz)	Min. Value ( $\Omega$ )	
SRF1306-350Y	35 $\pm$ 35 %	4	0.035	50	2.70	5 - 250	400	B
SRF1306-600Y	60 $\pm$ 35 %	5	0.065	50	2.00	5 - 100	600	B
SRF1306-101Y	100 $\pm$ 35 %	15	0.100	50	0.70	1 - 50	300	A
SRF1306-251Y	250 $\pm$ 35 %	25	0.150	50	0.60	1 - 40	600	A
SRF1306-501Y	500 $\pm$ 35 %	35	0.300	50	0.40	1 - 40	1200	A
SRF1306-102Y	1000 $\pm$ 35 %	45	0.400	50	0.35	0.5 - 10	2200	A

\* Test condition: 0.1 V, 100 KHz

## Schematics



## How to Order

Model **SRF1306 - 102 Y**  
 Value Code (see table)  
 Tolerance Code  
 Y = 35 %



### Asia-Pacific:

Tel: +886-2 2562-4117

Fax: +886-2 2562-4116

### Europe:

Tel: +41-41 768 5555

Fax: +41-41 768 5510

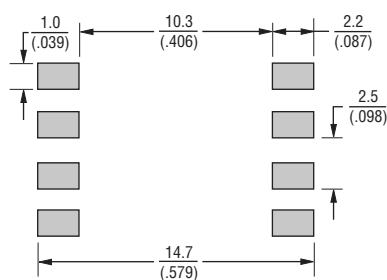
### The Americas:

Tel: +1-951 781-5500

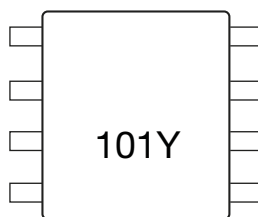
Fax: +1-951 781-5700

[www.bourns.com](http://www.bourns.com)

## Recommended Layout



## Typical Part Marking



## General Specifications

Temperature Rise .. 45 °C at rated current  
 Hi-Pot ..... 500 Vrms, 60 Hz,  
 3 mA, 1 minute

### Operating Temperature

..... -40 °C to +105 °C  
 (Temperature rise included)

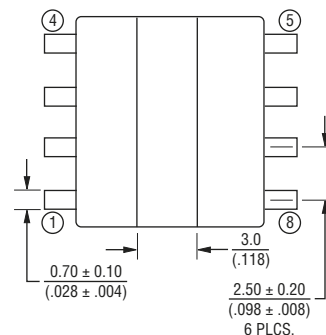
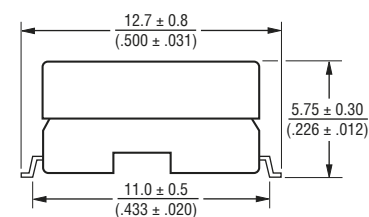
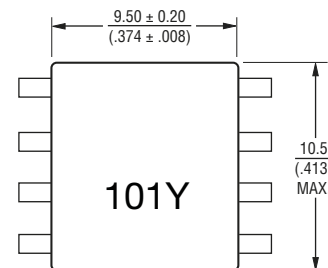
Storage Temperature .. -40 °C to +105 °C

Solderability ..... 245 °C for 5 sec.  
 (JEDEC J-STD-020D)

## Materials

Core Material ..... Ferrite  
 Base ..... LCP  
 Wire ..... Enameled copper  
 Terminal coating ..... Sn  
 Packaging ..... 600 pcs. per 13-inch reel

## Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$



**WARNING Cancer and Reproductive Harm**

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

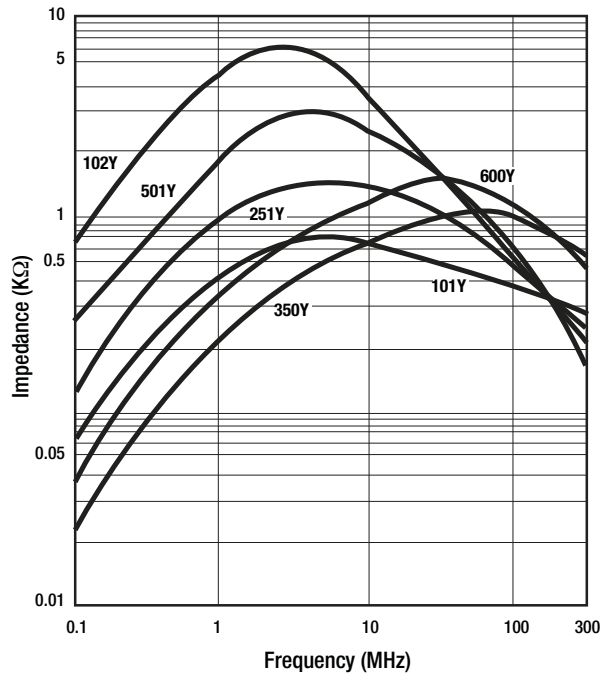
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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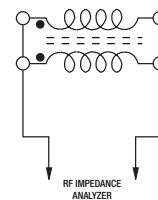
# SRF1306 Series - Line Filter

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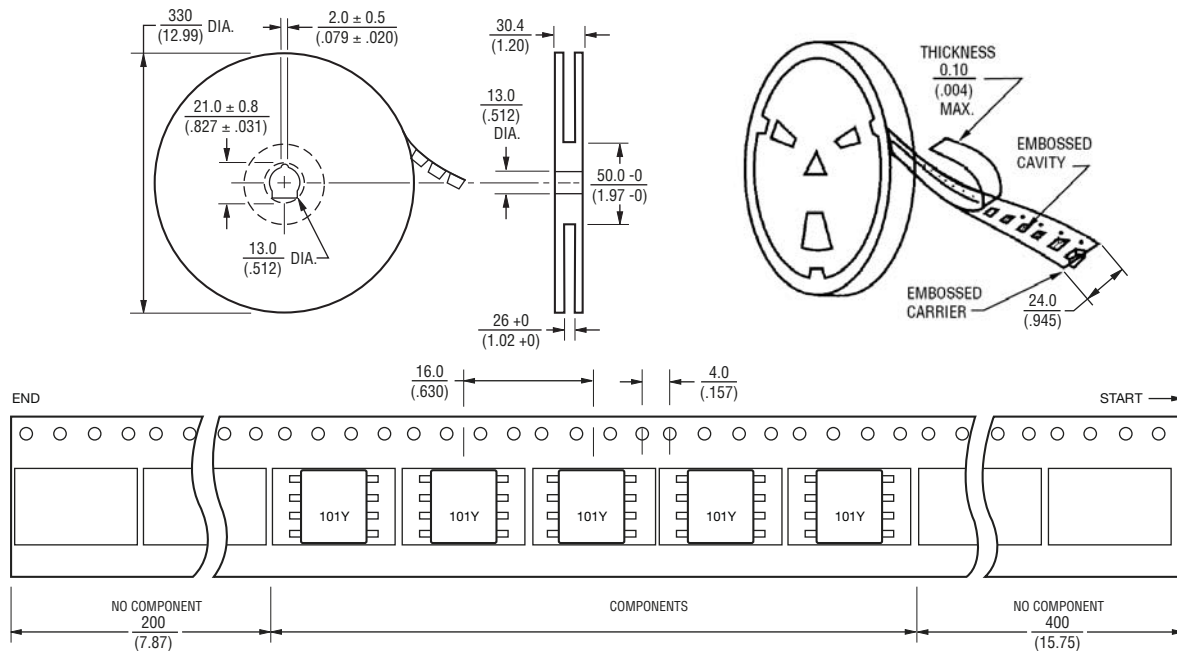
## Impedance Graph



MEASURING CIRCUIT



## Packaging Specifications



USER DIRECTION OF FEED  
QTY: 600 PCS. PER REEL

DIMENSIONS: MM  
(INCHES)

REV. 09/09

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