



## 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

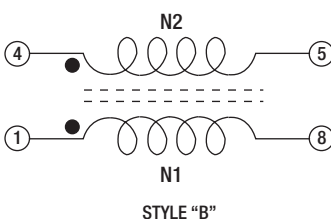
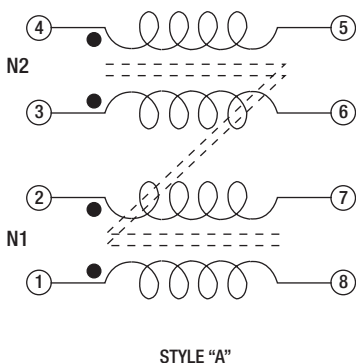
# SRF1306 Series - Line Filter

## Electrical Specifications @ 25 °C

| Part Number  | L<br>( $\mu$ H) * | Leakage Ind.<br>( $\mu$ H) Max. | DCR<br>( $\Omega$ ) max.<br>(each winding) | Rated Voltage<br>(Vdc) | Rated Current<br>(A) | Impedance (Z)        |                            | Electrical Schematic |
|--------------|-------------------|---------------------------------|--------------------------------------------|------------------------|----------------------|----------------------|----------------------------|----------------------|
|              |                   |                                 |                                            |                        |                      | Freq. Range<br>(MHz) | Min. Value<br>( $\Omega$ ) |                      |
| 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

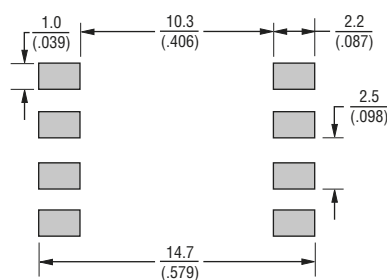
### The Americas:

Tel: +1-951 781-5500

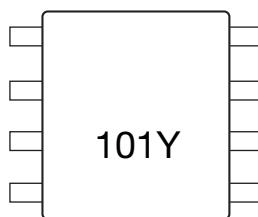
Fax: +1-951 781-5700

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## 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)

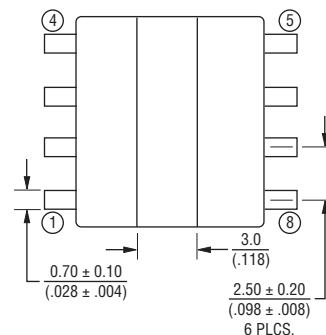
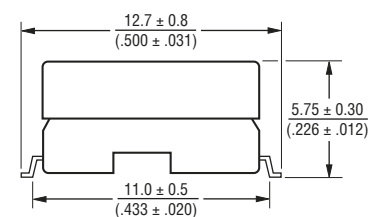
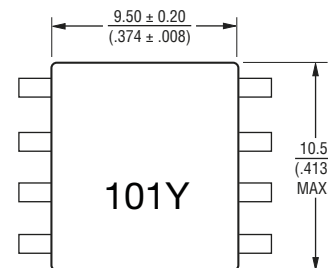
Storage Temperature .. -40 °C to +105 °C

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)

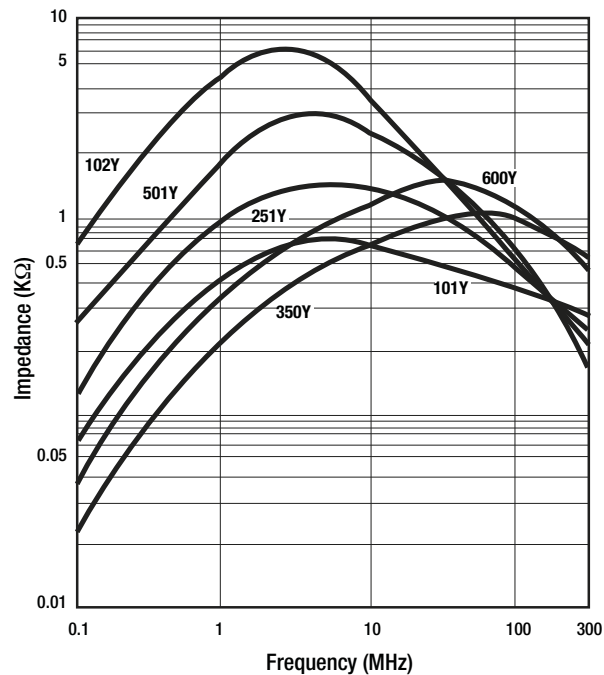
\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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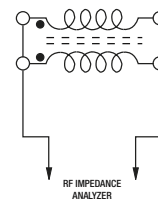
# SRF1306 Series - Line Filter

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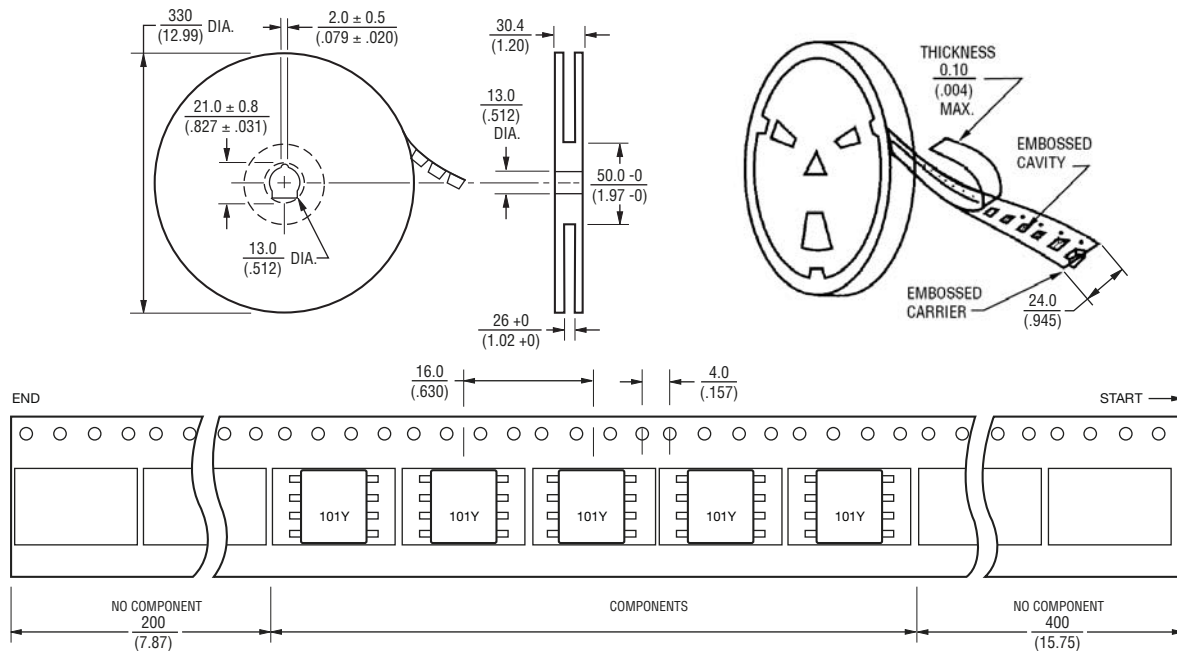
## Impedance Graph



MEASURING CIRCUIT



## Packaging Specifications



USER DIRECTION OF FEED

QTY: 600 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 09/09

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