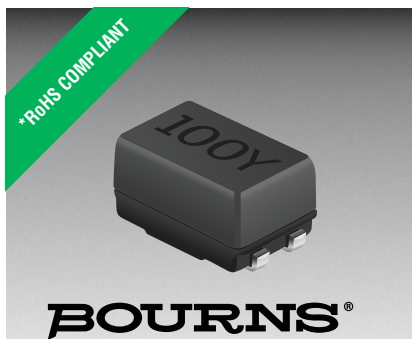




## Features

- Current rating up to 1.6 A
- Inductance range: 10 to 6500  $\mu$ H
- Frequency range to 300 MHz
- RoHS compliant\*

## Applications

- EMI suppression

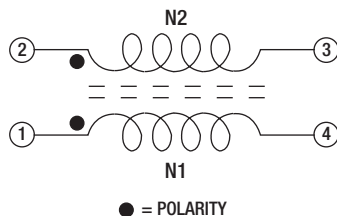
## SRF0905 Series - Line Filter

### Electrical Specifications @ 25 °C

| Part Number  | L<br>( $\mu$ H) ** | Leakage<br>Ind.<br>( $\mu$ H)<br>Max. | DCR<br>( $\Omega$ ) max.<br>(each<br>winding) | Rated<br>Voltage<br>(Vdc) | Rated<br>Current<br>(A) | Impedance (Z)           |                               |
|--------------|--------------------|---------------------------------------|-----------------------------------------------|---------------------------|-------------------------|-------------------------|-------------------------------|
|              |                    |                                       |                                               |                           |                         | Freq.<br>Range<br>(MHz) | Min.<br>Value<br>( $\Omega$ ) |
| SRF0905-100Y | 10 $\pm$ 30 %      | 8                                     | 0.08                                          | 80                        | 1.6                     | 20 - 300                | 200                           |
| SRF0905-250Y | 25 $\pm$ 30 %      | 16                                    | 0.16                                          | 80                        | 1.0                     | 20 - 150                | 600                           |
| SRF0905-400Y | 40 $\pm$ 30 %      | 18                                    | 0.25                                          | 80                        | 0.9                     | 20 - 100                | 800                           |
| SRF0905-500Y | 50 $\pm$ 30 %      | 22                                    | 0.32                                          | 80                        | 0.8                     | 20 - 100                | 1500                          |
| SRF0905-251Y | 250 $\pm$ 50 %     | 0.11                                  | 0.13                                          | 80                        | 1.2                     | 3 - 20                  | 600                           |
| SRF0905-471Y | 470 $\pm$ 50 %     | 0.12                                  | 0.14                                          | 80                        | 1.1                     | 2 - 20                  | 1000                          |
| SRF0905-501Y | 500 $\pm$ 50 %     | 0.12                                  | 0.15                                          | 80                        | 1.0                     | 1 - 20                  | 1000                          |
| SRF0905-102Y | 1000 $\pm$ 50 %    | 0.17                                  | 0.31                                          | 80                        | 0.8                     | 1 - 15                  | 1500                          |
| SRF0905-202Y | 2000 $\pm$ 50 %    | 0.25                                  | 0.42                                          | 80                        | 0.6                     | 1 - 5                   | 3000                          |
| SRF0905-472Y | 4700 $\pm$ 50 %    | 0.36                                  | 0.90                                          | 80                        | 0.4                     | 0.3 - 3                 | 4000                          |
| SRF0905-652Y | 6500 $\pm$ 50 %    | 0.39                                  | 1.05                                          | 80                        | 0.3                     | 0.3 - 2                 | 5000                          |

\*\* Test condition: 10 - 50  $\mu$ H, 0.1 V, 1 KHz; 250 - 6500  $\mu$ H, 5 mV, 100 KHz

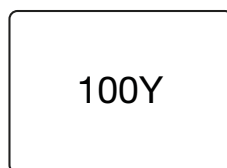
### Schematic



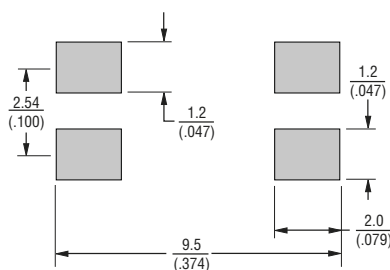
### How to Order

Model **SRF0905 - 102 Y**  
 Value Code (see table)  
 Tolerance Code (see table)

### Typical Part Marking



### Recommended Layout



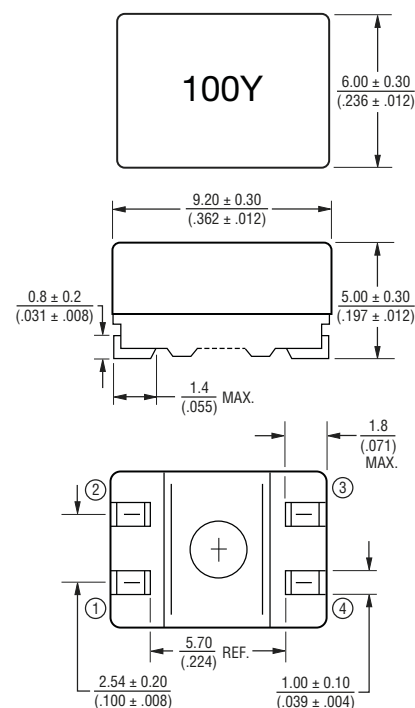
### General Specifications

Temperature Rise.. 45 °C at rated current  
 Hi-Pot ..... 500 VAC, 60 Hz,  
 3 mA max. for 3 seconds  
 Operating Temperature  
 ..... -40 °C to +105 °C  
 (Temperature rise included)  
 Storage Temperature .. -40 °C to +105 °C  
 Solderability ..... 260 °C for 5 sec.  
 (JEDEC J-STD-020D)

### Materials

Core Material ..... Ferrite  
 Base ..... LCP  
 Wire ..... Enameled copper  
 Terminal coating ..... Sn  
 Packaging ..... 1000 pcs. per 13-inch reel

### Product Dimensions



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



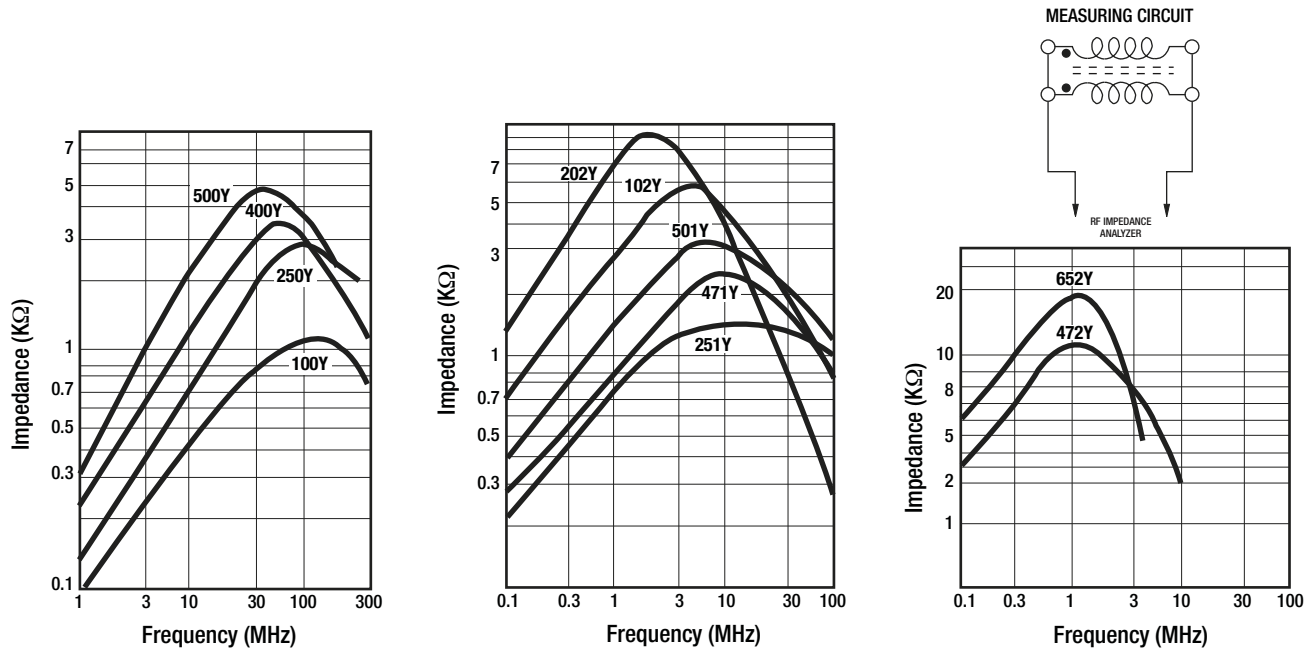
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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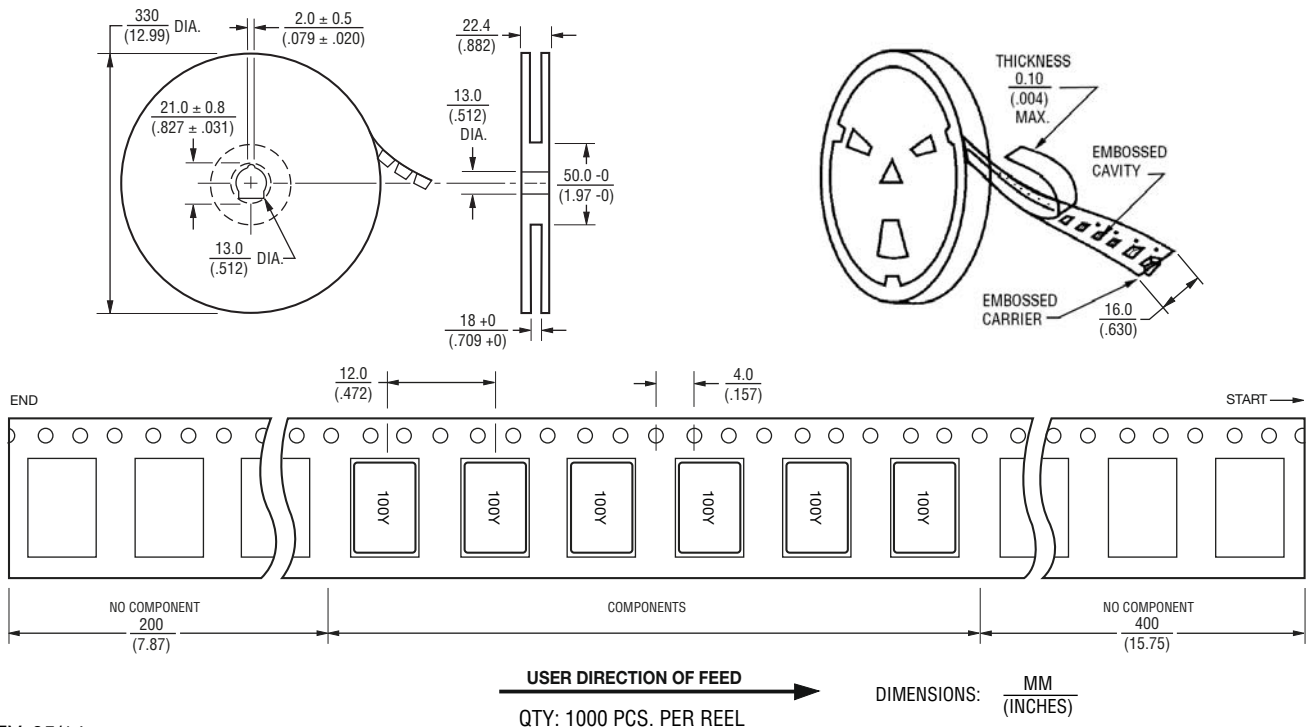
# SRF0905 Series - Line Filter

**BOURNS®**

## Impedance Graphs



## Packaging Specifications



REV. 05/14

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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