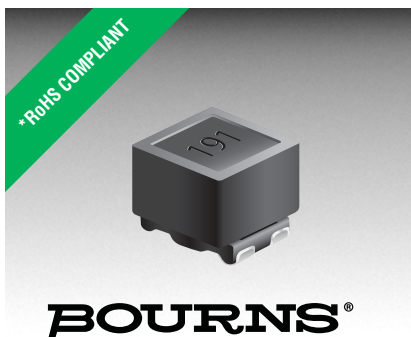




## Features

- Current rating up to 5 A
- Inductance range: 0.60 to 6.0  $\mu$ H
- Frequency range to 1200 MHz
- RoHS compliant\*

## Applications

- EMI suppression

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## SRF0504 Series - Line Filter

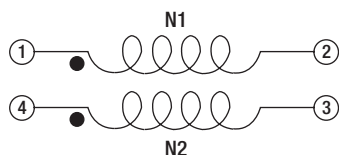
### Electrical Specifications @ 25 °C

| Part Number  | L ( $\mu$ H) **<br>(Ref.) | Impedance***<br>Z ( $\Omega$ )<br>@ 100 MHz | DCR<br>(m $\Omega$ ) max.<br>(each<br>winding) | Rated<br>Current<br>(mA) |
|--------------|---------------------------|---------------------------------------------|------------------------------------------------|--------------------------|
| SRF0504-191Y | 0.60                      | 190 $\pm$ 35 %                              | 20                                             | 5000                     |
| SRF0504-351Y | 1.1                       | 350 $\pm$ 35 %                              | 40                                             | 2000                     |
| SRF0504-102Y | 2.7                       | 1000 $\pm$ 35 %                             | 60                                             | 1500                     |
| SRF0504-152Y | 3.6                       | 1500 $\pm$ 35 %                             | 100                                            | 1000                     |
| SRF0504-302Y | 6.0                       | 3000 $\pm$ 50 %                             | 200                                            | 500                      |
| SRF0504-402Y | 2.8                       | 4000 $\pm$ 50 %                             | 300                                            | 200                      |

\*\* Test condition: 100 KHz, 0.1 V

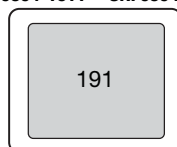
\*\*\* At 20 °C.

### Schematic

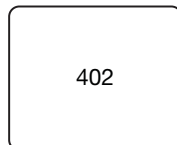


### Typical Part Marking

SRF0504-191Y ~ SRF0504-302Y



SRF0504-402Y

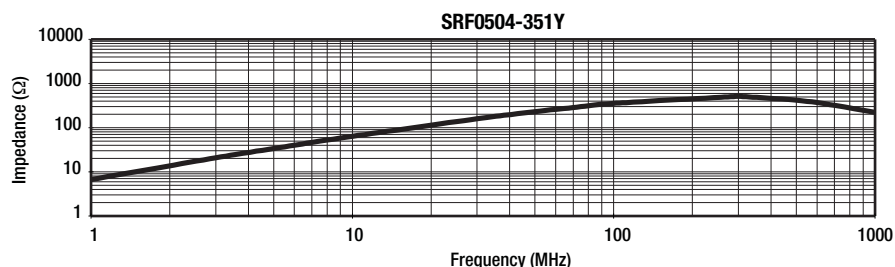
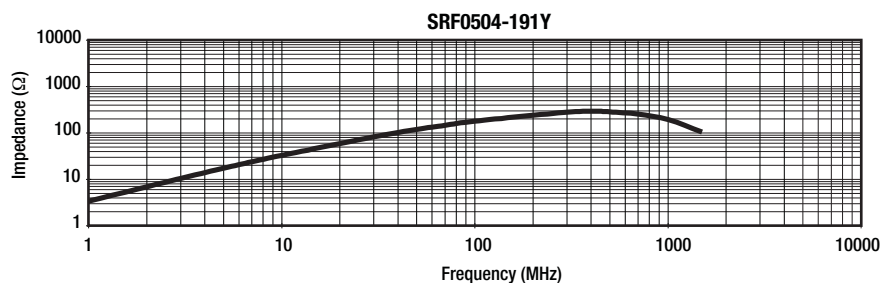


### How to Order

**SRF0504 - 102 Y**

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_  
Tolerance Code \_\_\_\_\_

### Impedance Graphs (Continued on page 2)



\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

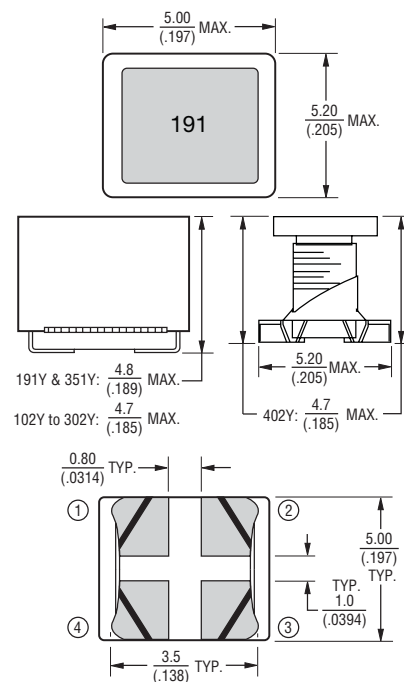
### General Specifications

Rated Voltage ..... 50 Vdc  
Dielectric Withstanding Voltage .. 125 Vdc  
Temperature Rise.. 20 °C at rated current  
Operating Temperature  
..... -40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature .. -40 °C to +125 °C  
Solderability ..... 250 °C for 5 sec.  
(JEDEC J-STD-020D)

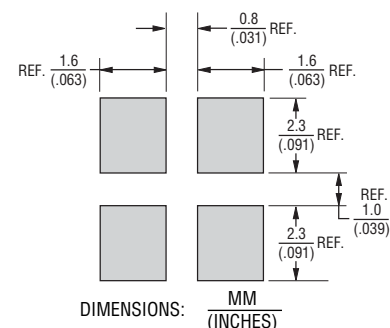
### Materials

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

### Product Dimensions



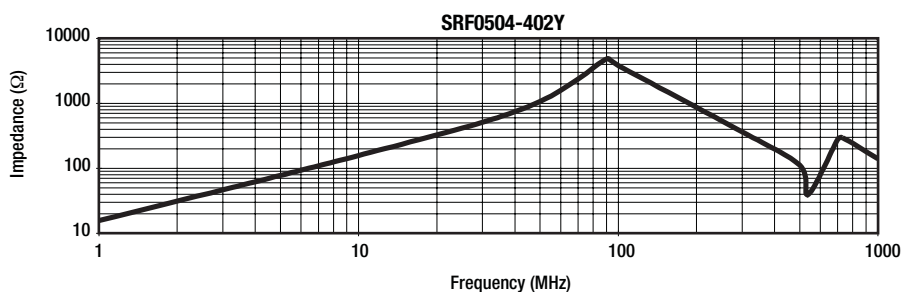
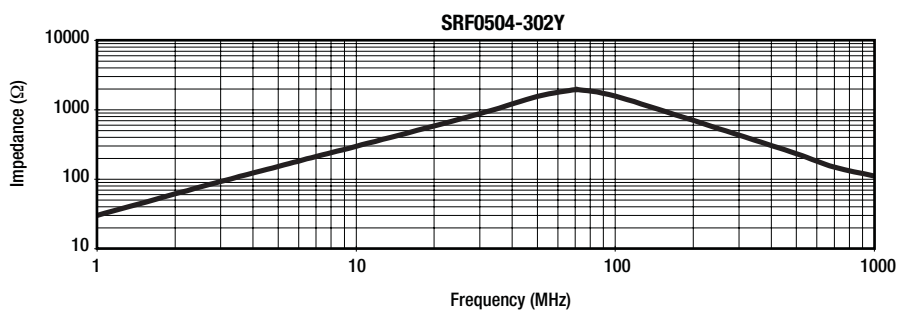
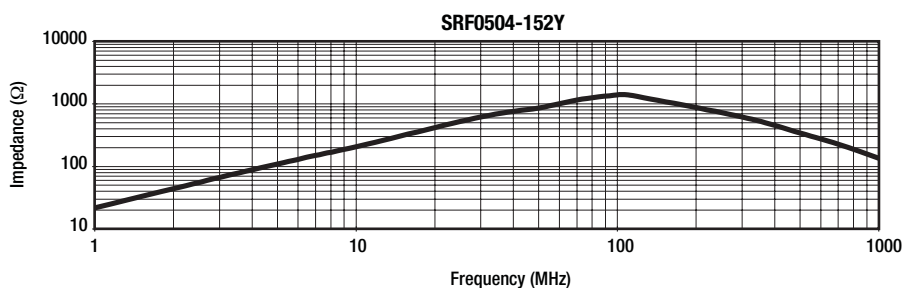
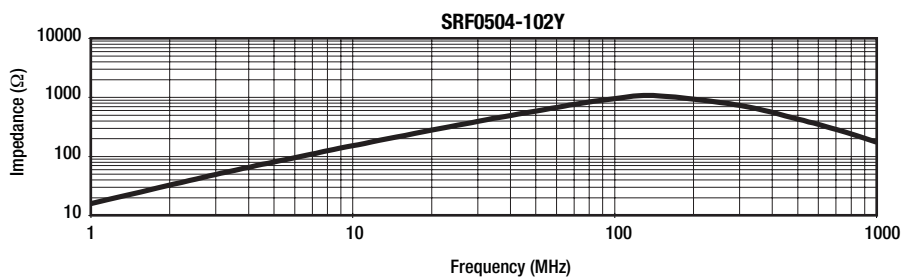
### Recommended Layout



## SRF0504 Series - Line Filter

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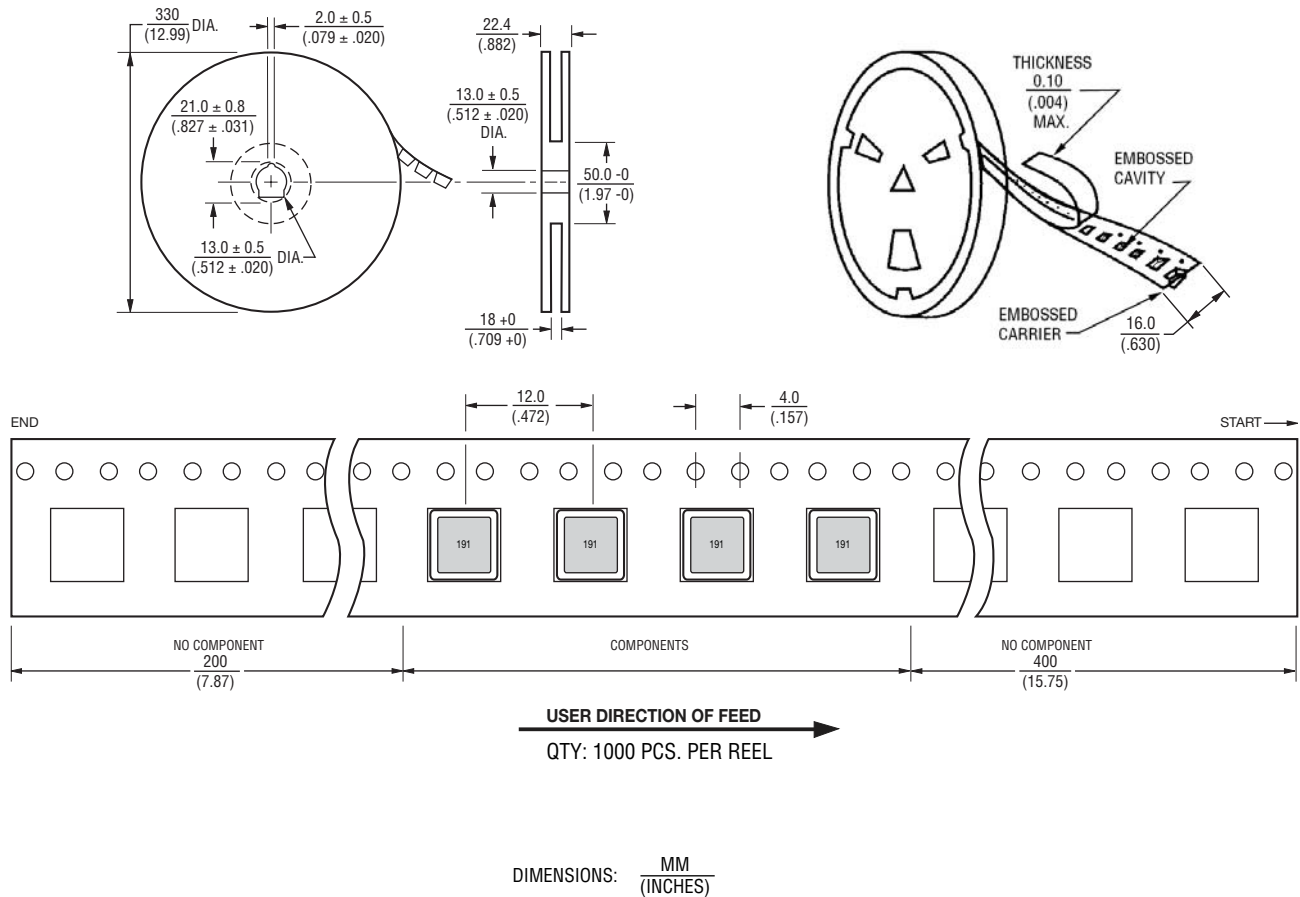
### Impedance Graphs (Continued)



## SRF0504 Series - Line Filter

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### Packaging Specifications



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