

## 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

# SRF0504 Series - Line Filter

### Electrical Specifications @ 25 °C

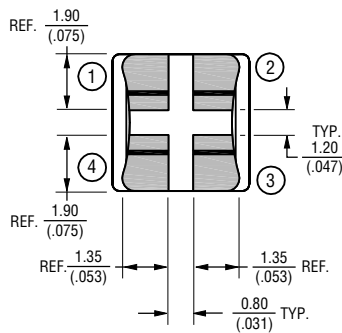
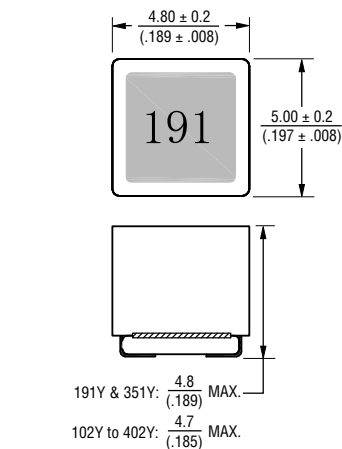
| Part Number  | L ( $\mu$ H) ** (Ref.) | Impedance*** Z ( $\Omega$ ) @ 100 MHz | DCR (m $\Omega$ ) max. (each winding) | Rated Current (mA) |
|--------------|------------------------|---------------------------------------|---------------------------------------|--------------------|
| SRF0504-191Y | 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.

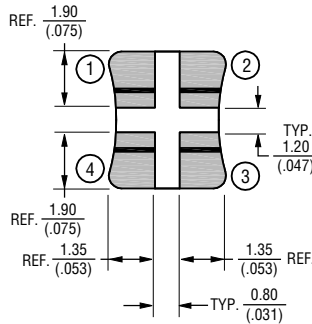
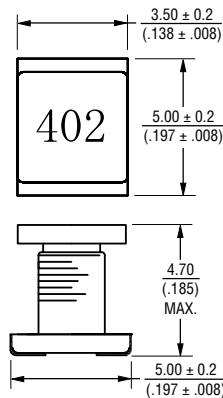
### Product Dimensions

#### SRF0504-191Y~302Y



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

#### SRF0504-402Y



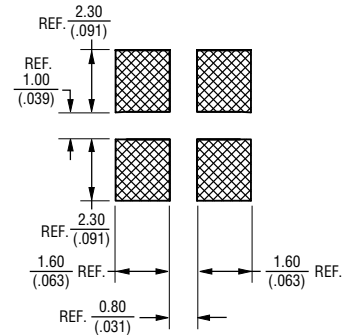
### General Specifications

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)

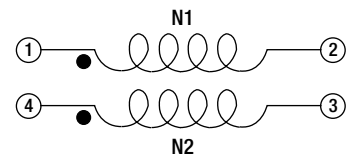
### Materials

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

### Recommended Layout

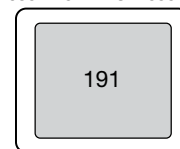


### Schematic



### Typical Part Marking

#### SRF0504-191Y ~ SRF0504-302Y



#### SRF0504-402Y



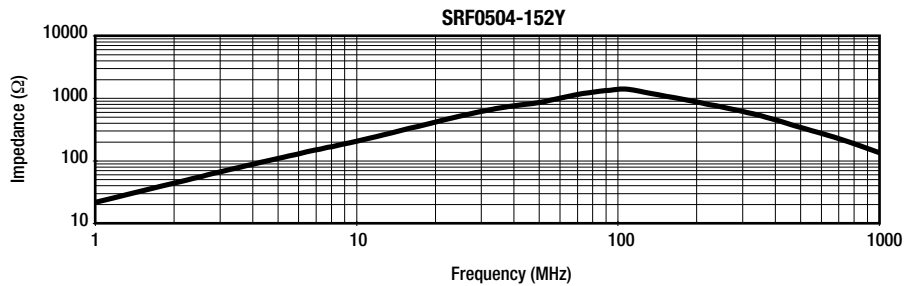
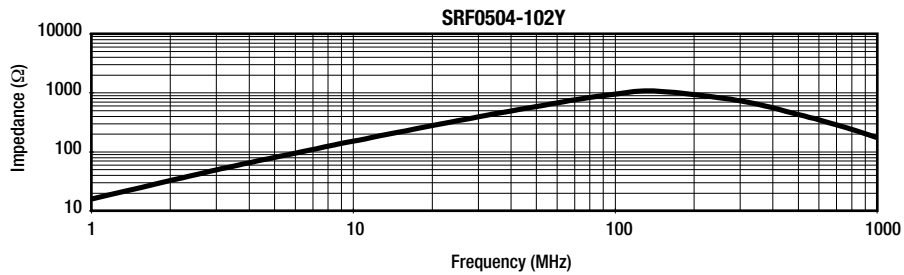
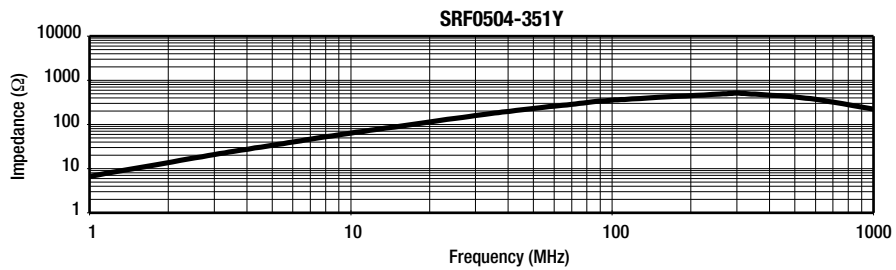
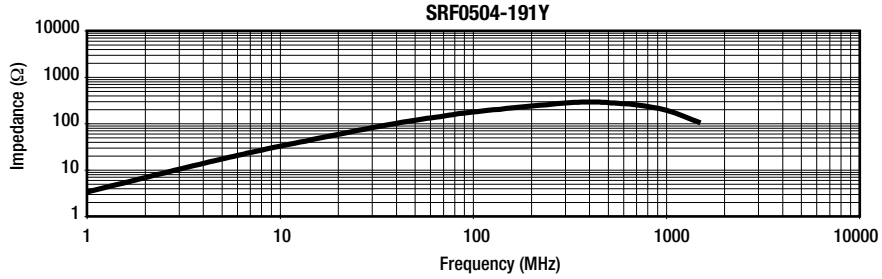
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf)

# SRF0504 Series - Line Filter

**BOURNS®**

## Impedance Graphs



Specifications are subject to change without notice.

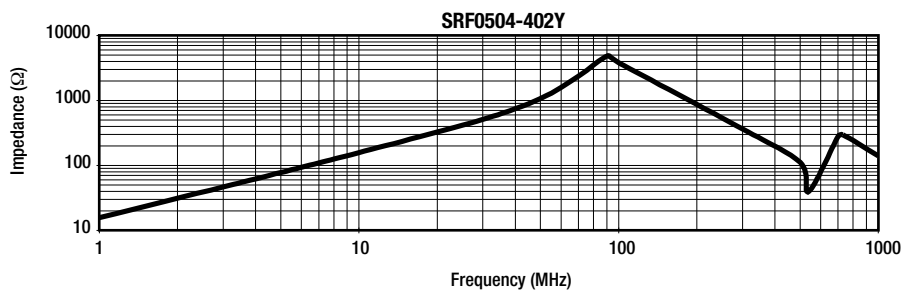
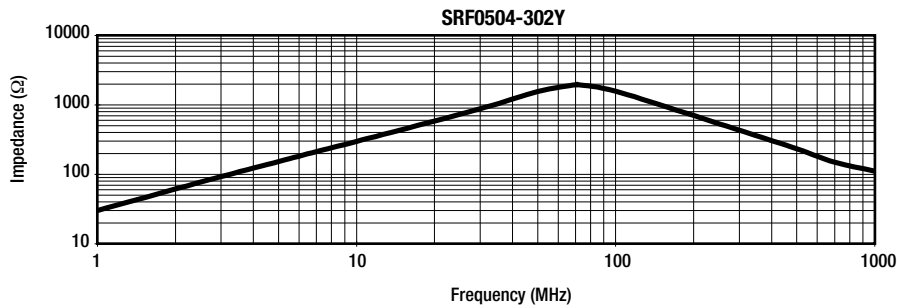
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# SRF0504 Series - Line Filter

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## Impedance Graphs (Continued)

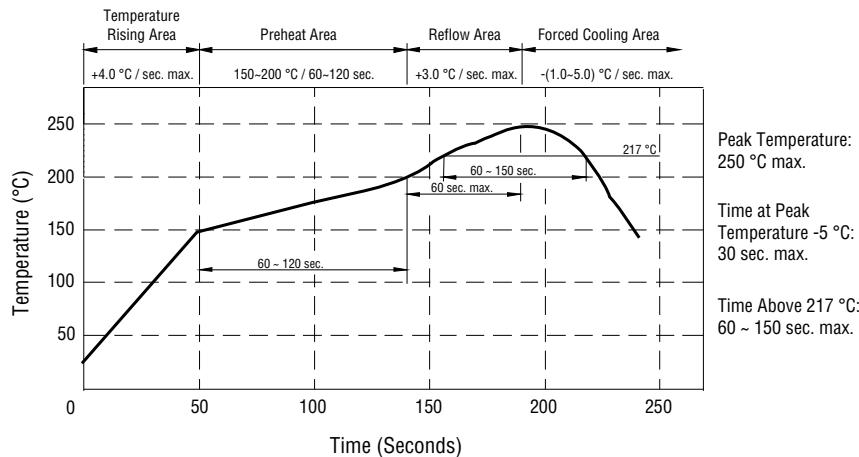


## How to Order

**SRF0504 - 102 Y**

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

## Soldering Profile



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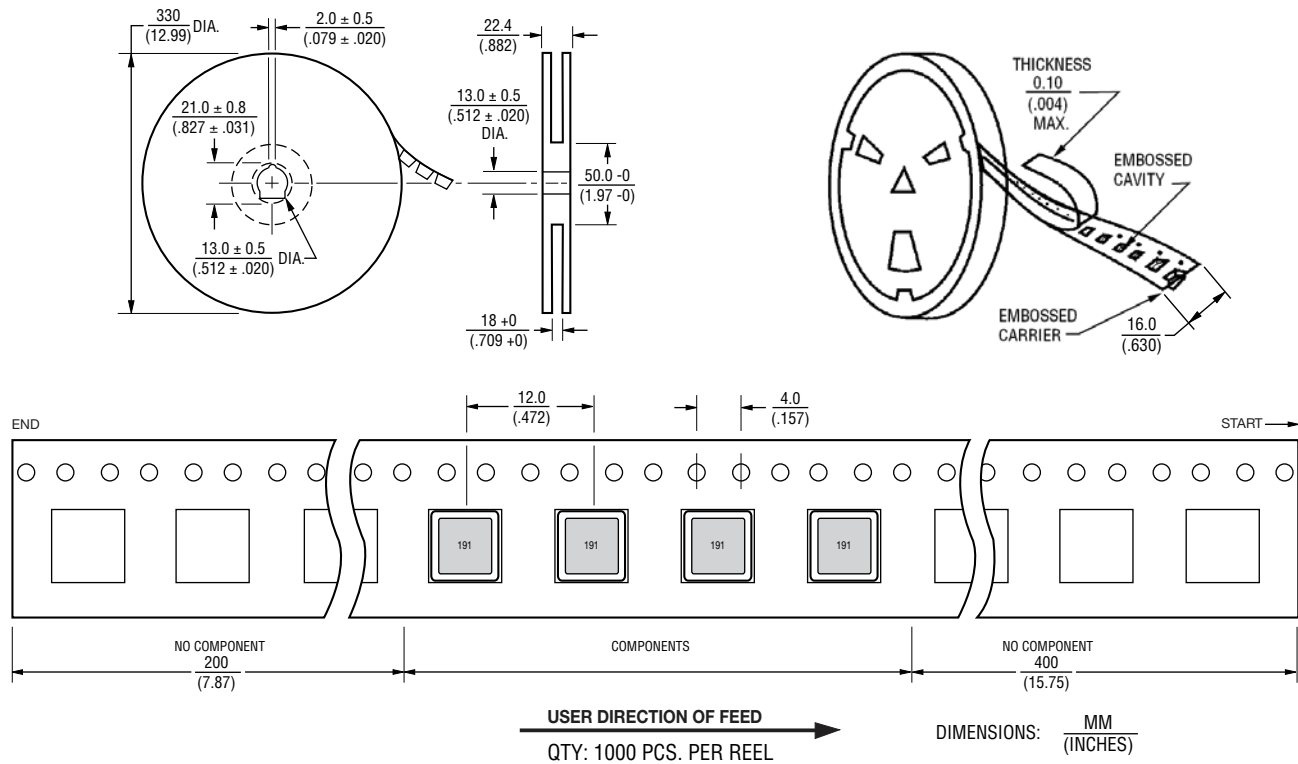
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# SRF0504 Series - Line Filter

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## Packaging Specifications



**BOURNS®**

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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REV. 01/17

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