

## 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

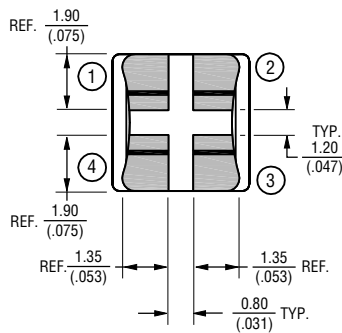
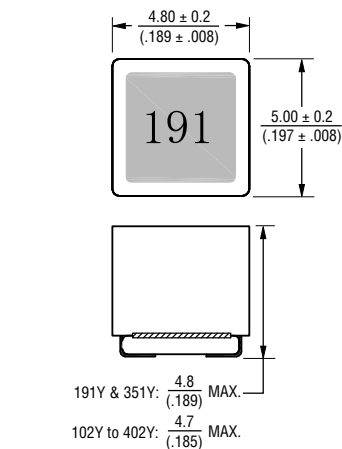
Part Number	L ( $\mu$ H) ** (Ref.)	Impedance*** Z ( $\Omega$ ) @ 100 MHz	DCR (m $\Omega$ ) max. (each winding)	Rated Current (mA)
SRF0504-191Y	0.60	190 $\pm$ 35 %	20	5000
SRF0504-351Y	1.1	350 $\pm$ 35 %	40	2000
SRF0504-102Y	2.7	1000 $\pm$ 35 %	60	1500
SRF0504-152Y	3.6	1500 $\pm$ 35 %	100	1000
SRF0504-302Y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

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

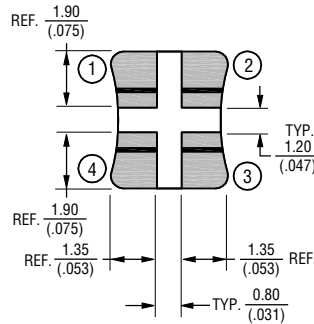
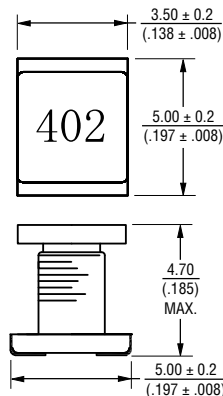
\*\*\* At 20 °C.

### Product Dimensions

#### SRF0504-191Y~302Y



#### SRF0504-402Y



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

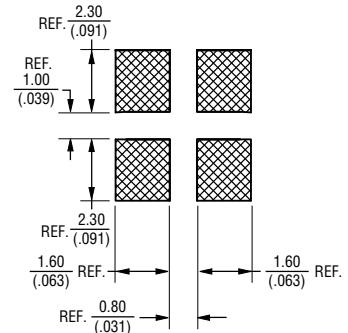
### General Specifications

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)

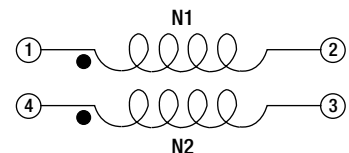
### Materials

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

### Recommended Layout

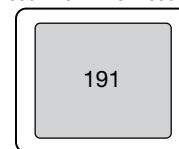


### Schematic



### Typical Part Marking

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



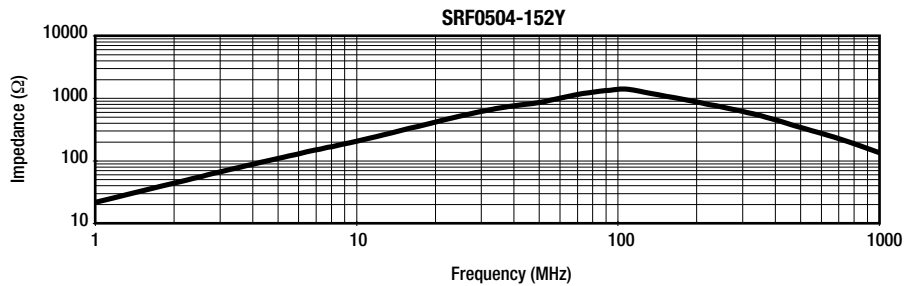
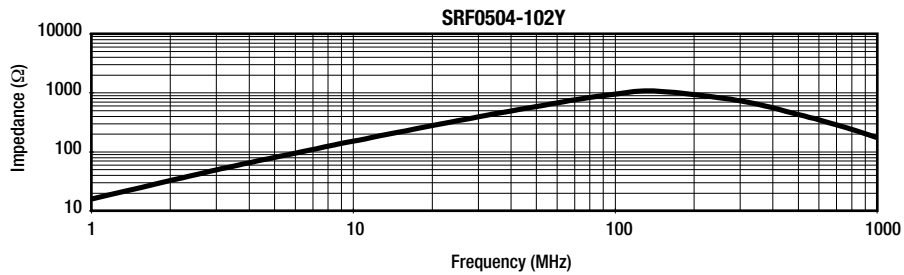
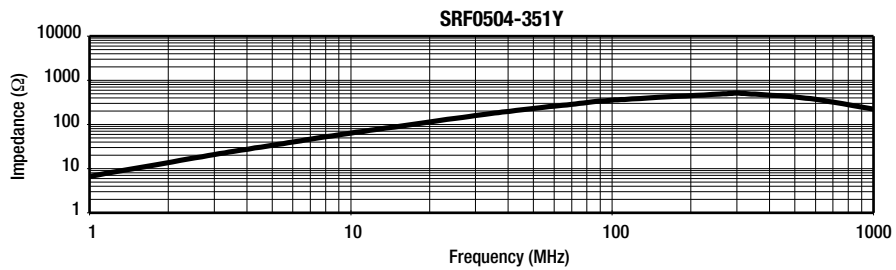
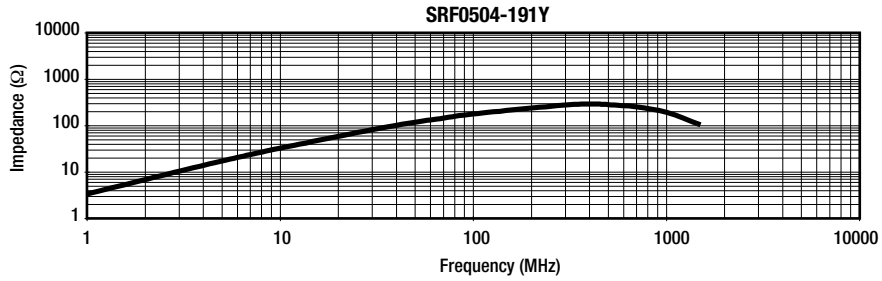
#### SRF0504-402Y



**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.  
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## Impedance Graphs



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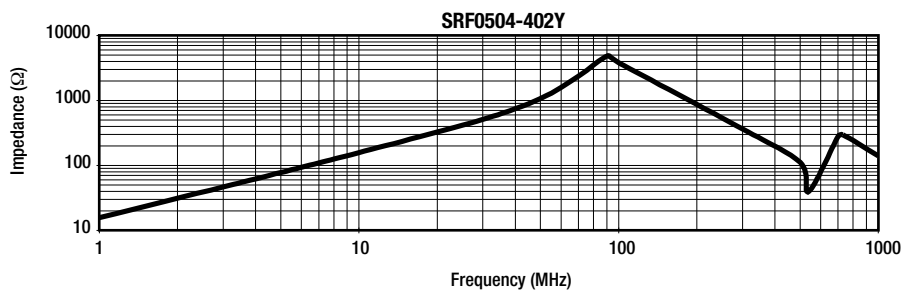
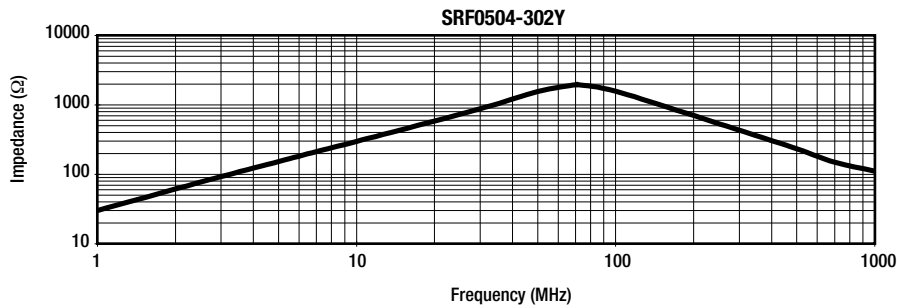
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# SRF0504 Series - Line Filter

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## Impedance Graphs (Continued)

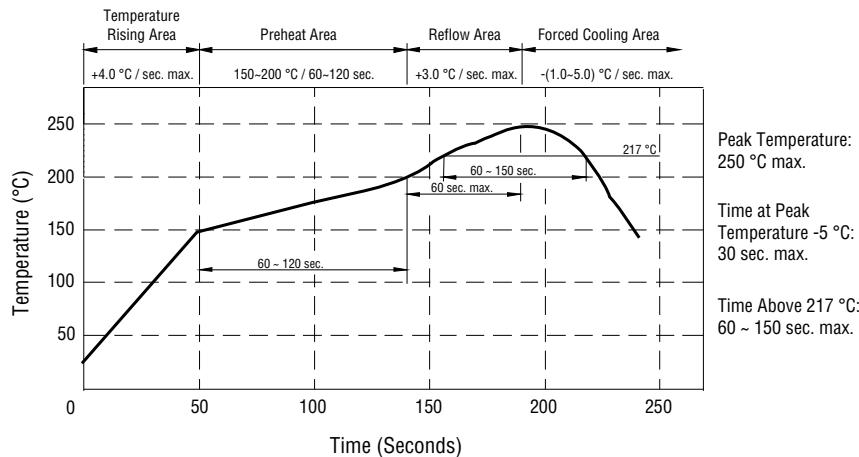


## How to Order

**SRF0504 - 102 Y**

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

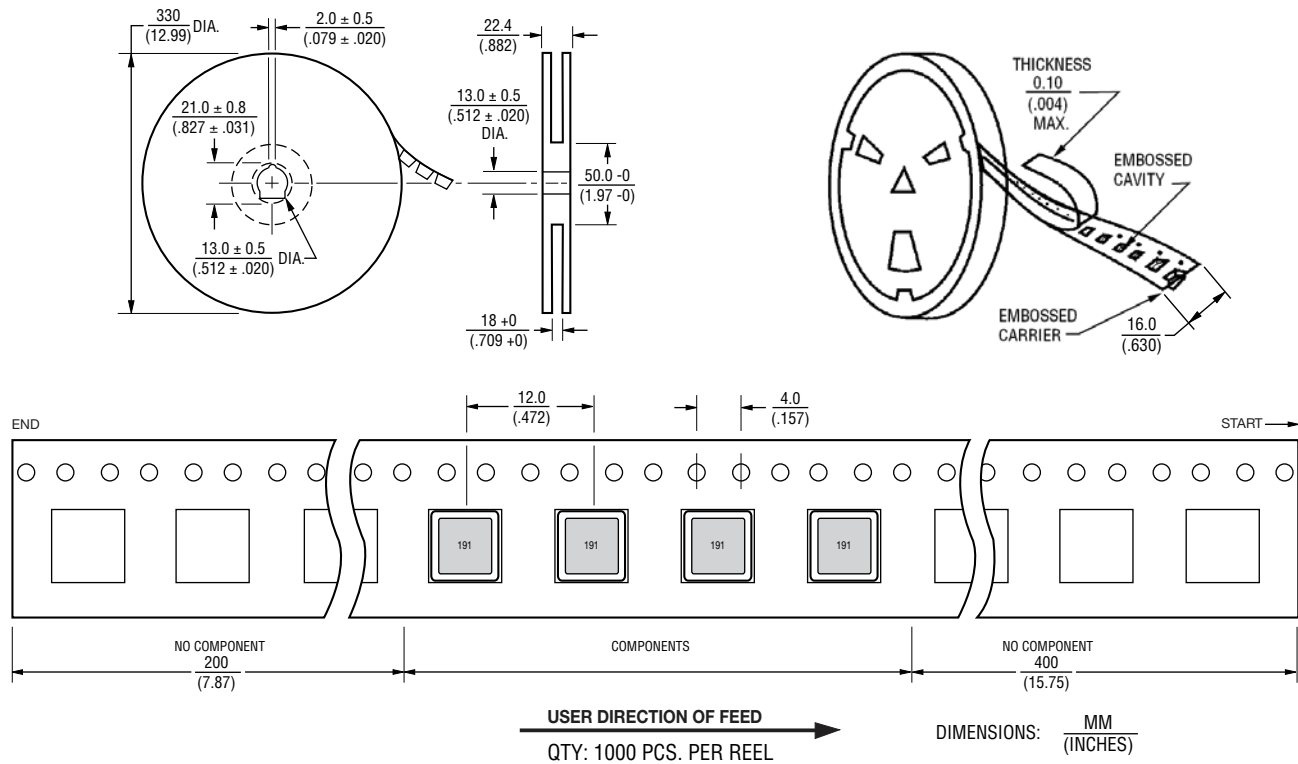
## Soldering Profile



# SRF0504 Series - Line Filter

**BOURNS®**

## 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

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

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.