



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



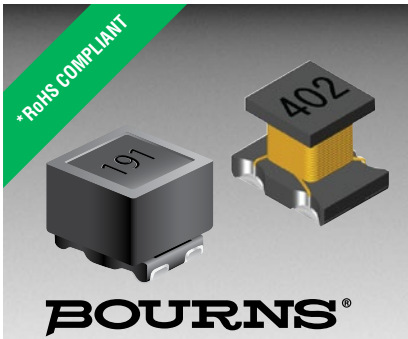
## Contact us

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## 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

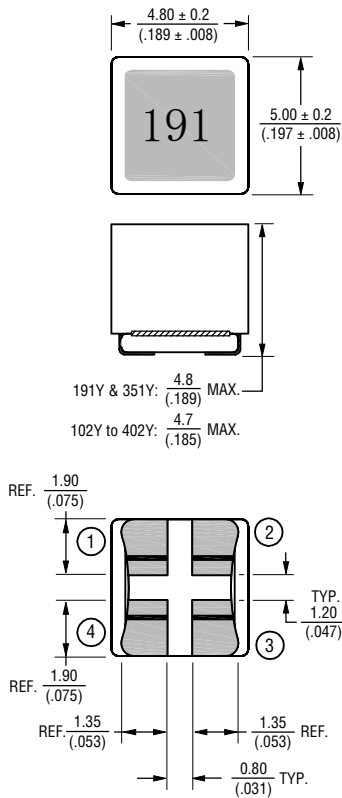
Part Number	L ( $\mu$ H) ** (Ref.)	Impedance*** Z ( $\Omega$ ) @ 100 MHz	DCR (m $\Omega$ ) max. (each winding)	Rated Current (mA)
SRF0504-191Y	0.60	190 $\pm$ 35 %	20	5000
SRF0504-351Y	1.1	350 $\pm$ 35 %	40	2000
SRF0504-102Y	2.7	1000 $\pm$ 35 %	60	1500
SRF0504-152Y	3.6	1500 $\pm$ 35 %	100	1000
SRF0504-302Y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

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

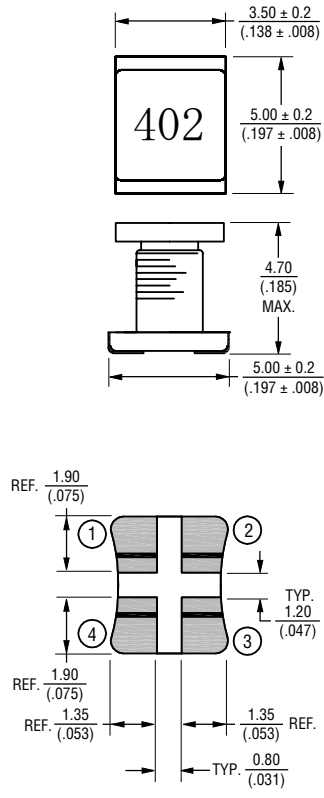
\*\*\* At 20 °C.

### Product Dimensions

#### SRF0504-191Y~302Y



#### SRF0504-402Y



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

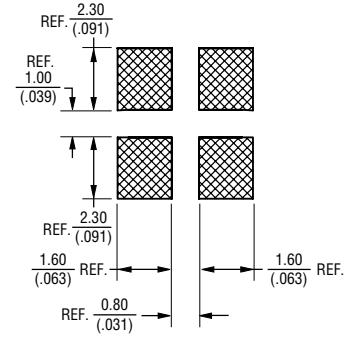
### General Specifications

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)

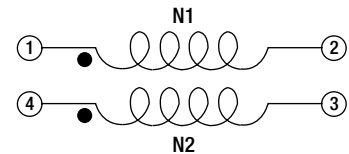
### Materials

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

### Recommended Layout

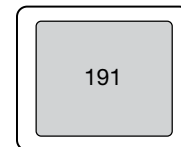


### Schematic

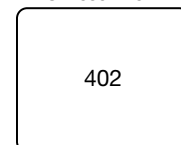


### Typical Part Marking

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



#### SRF0504-402Y

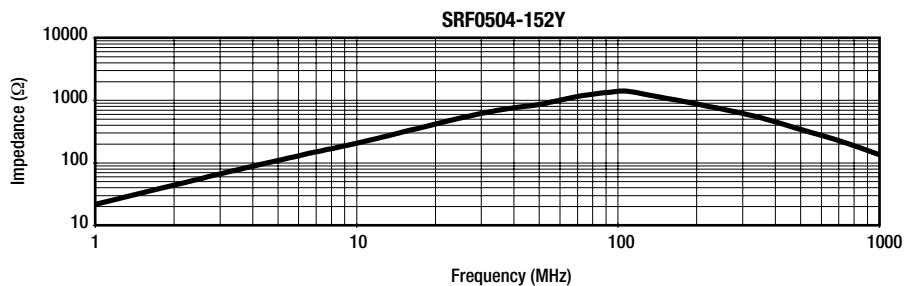
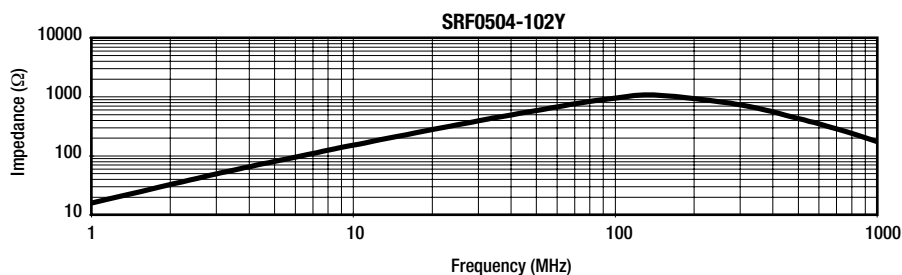
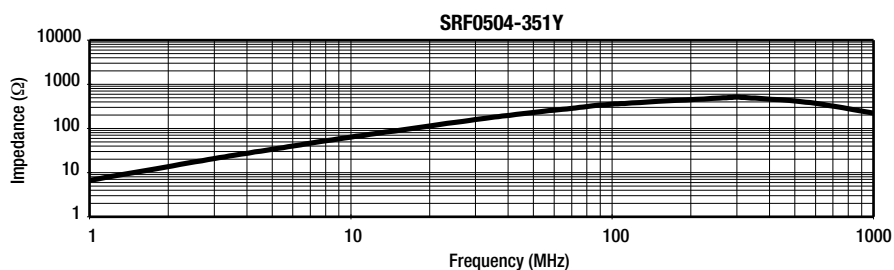
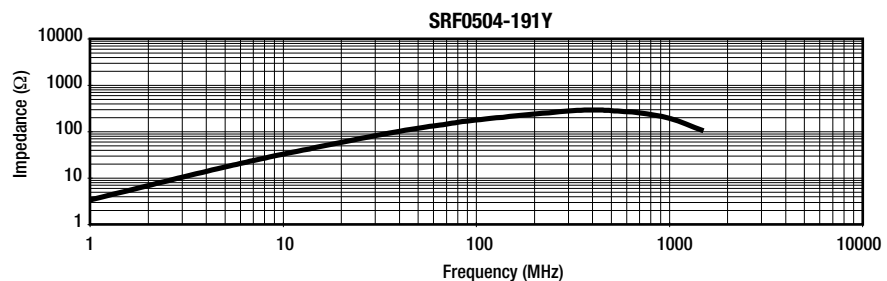


\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
 Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
 Users should verify actual device performance in their specific applications.

## SRF0504 Series - Line Filter

**BOURNS®**

### Impedance Graphs

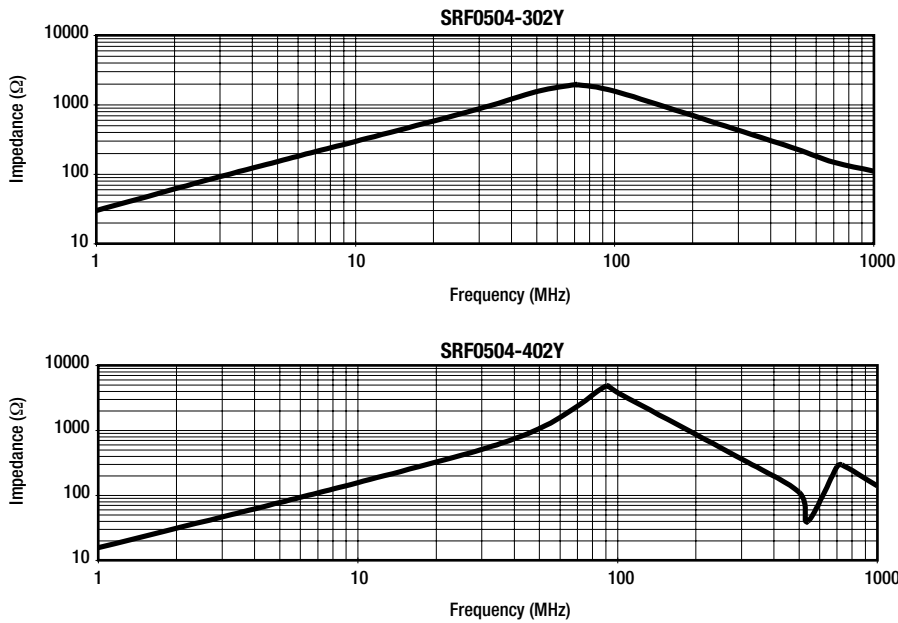


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# SRF0504 Series - Line Filter

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## Impedance Graphs (Continued)

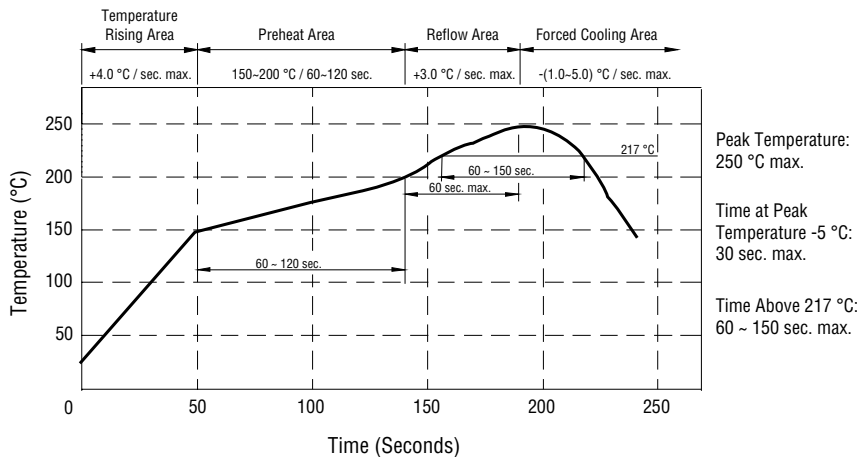


## How to Order

**SRF0504 - 102 Y**

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

## Soldering Profile



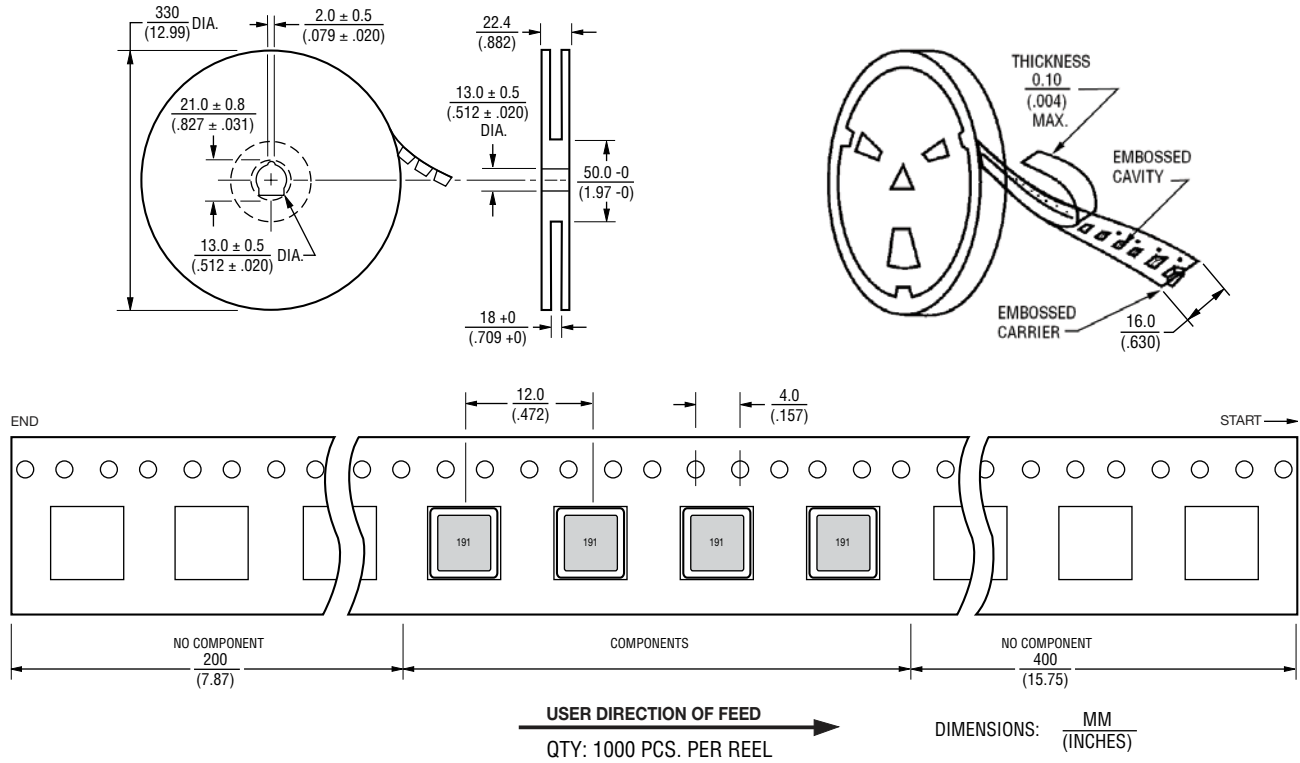
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# SRF0504 Series - Line Filter

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## Packaging Specifications



REV. 01/17

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