

## Features

- Current rating up to 5 A
- Inductance range: 0.55 to 5.0  $\mu$ H
- Frequency range to 1200 MHz
- RoHS compliant\*

## Applications

- EMI suppression

# SRF0504 Series - Line Filter

### Electrical Specifications @ 25 °C

Part Number	L ( $\mu$ H) *	Leakage Inductance (nH) Max.	DCR (m $\Omega$ ) max. (each winding)	Rated Current (mA)	Impedance (Z)	
					Freq. Range (MHz)	Min. Value ( $\Omega$ )
SRF0504-191Y	0.55 $\pm$ 30 %	60	20	5000	70 - 1200	150
SRF0504-351Y	1.0 $\pm$ 30 %	65	40	2000	55 - 900	250
SRF0504-102Y	2.5 $\pm$ 30 %	85	60	1500	40 - 420	500
SRF0504-152Y	3.0 $\pm$ 30 %	190	100	1000	30 - 300	700
SRF0504-302Y	5.0 $\pm$ 30 %	435	200	500	30 - 150	1000
SRF0504-402Y	2.5 $\pm$ 20 %	150	300	200	70 - 120	2500

\* Test condition: 100 KHz, 0.1 V

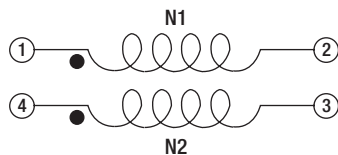
### General Specifications

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)

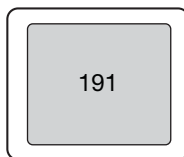
### Materials

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

### Schematic



### Typical Part Marking

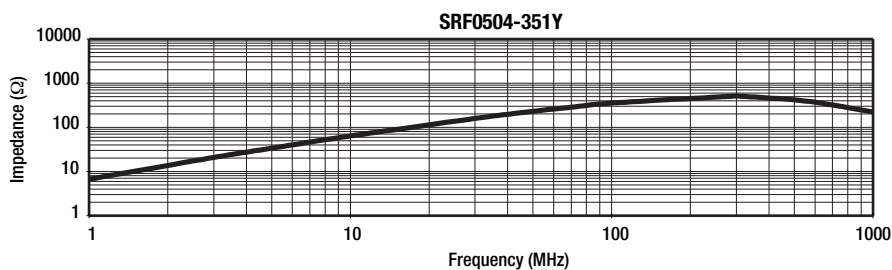
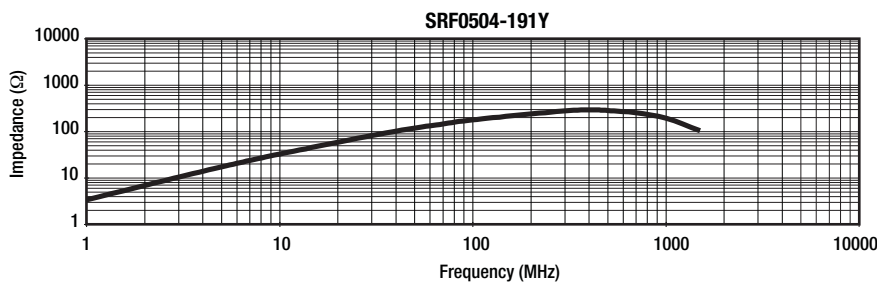


### How to Order

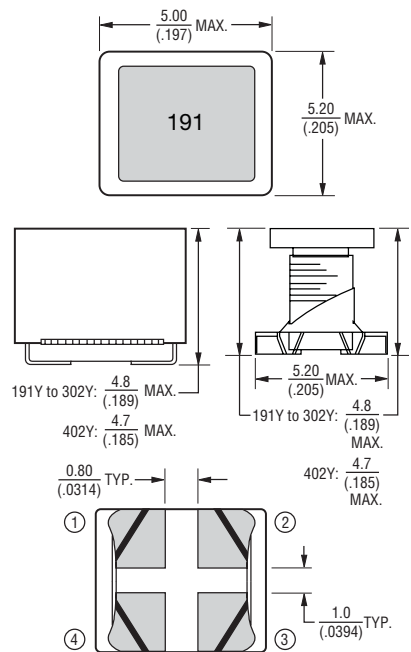
**SRF0504 - 102 Y**

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

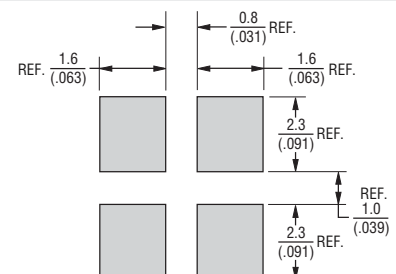
### Impedance Graphs (Continued on page 2)



### Product Dimensions



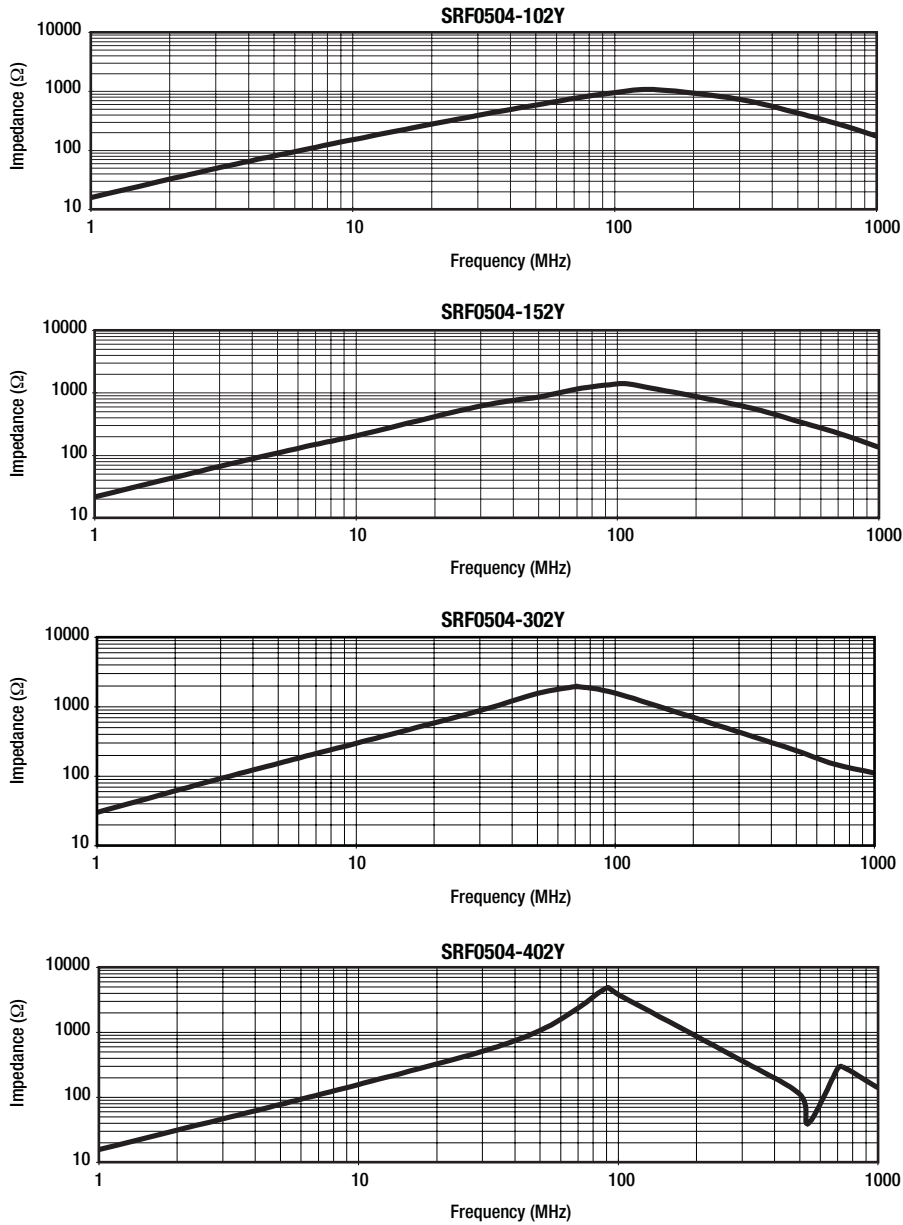
### Recommended Layout



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

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications

## Impedance Graphs (Continued)

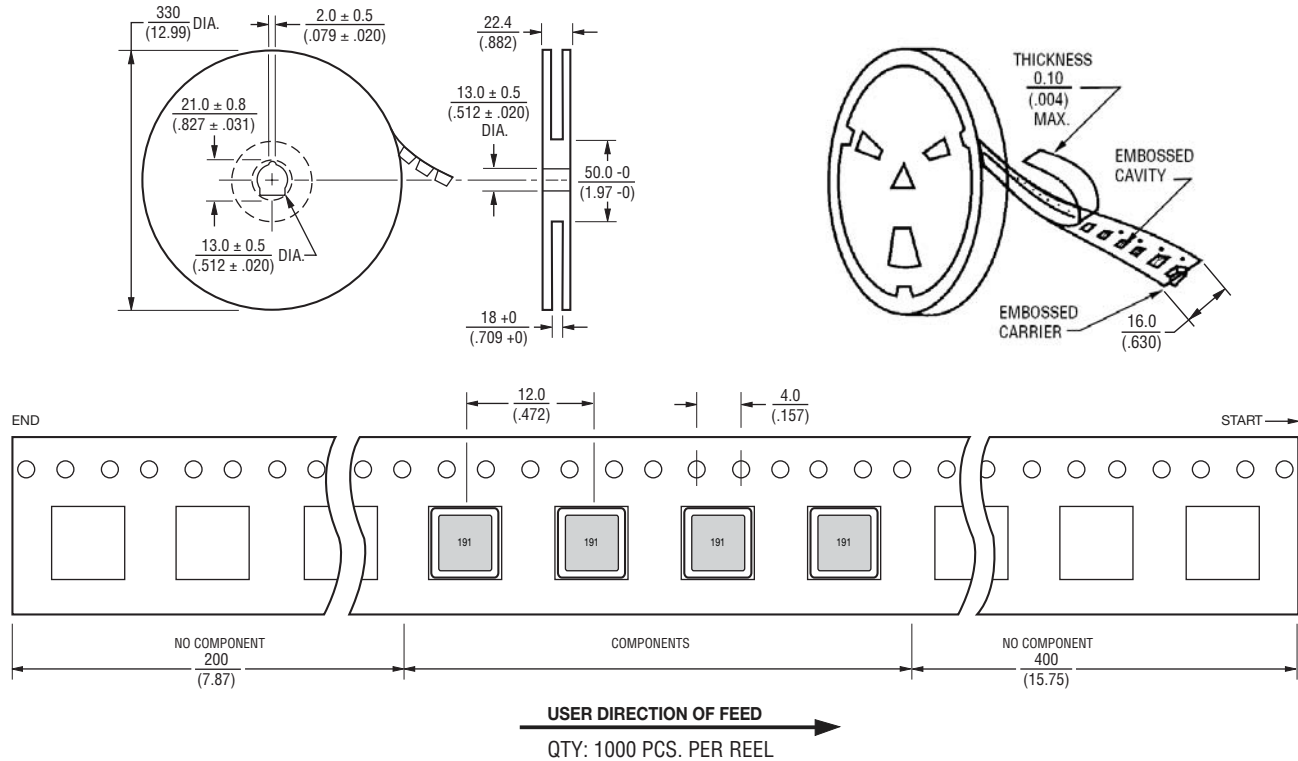


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**BOURNS®**

## Packaging Specifications



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



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05/09

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