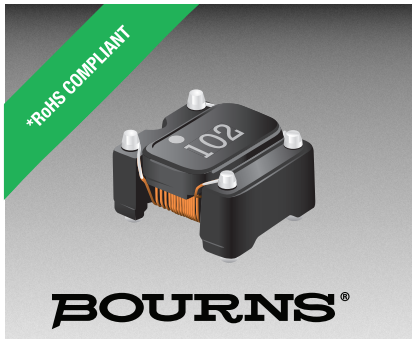




**THE DATASHEET OF  
SRF1006-102Y**





## Features

- Current rating up to 2.5 A
- Inductance range: 120 to 5000  $\mu\text{H}$
- Frequency range to 200 MHz
- RoHS compliant\*

## Applications

- EMI suppression

**BOURNS®**

## SRF1006 Series - Line Filter

### Additional Information

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INVENTORY



SAMPLES



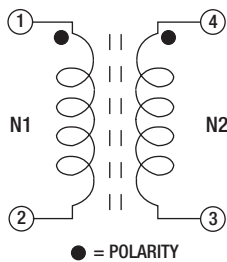
CONTACT

### Electrical Specifications @ 25 °C

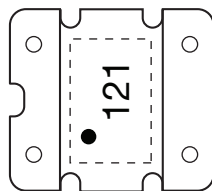
Part Number	L ( $\mu\text{H}$ ) *	DCR ( $\Omega$ ) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)	
					Freq. Range (MHz)	Min. Value ( $\Omega$ )
SRF1006-121Y	120 $\pm$ 40 %	0.025	50	2.50	10 - 200	200
SRF1006-251Y	250 $\pm$ 40 %	0.035	50	2.00	5 - 100	400
SRF1006-501Y	500 $\pm$ 40 %	0.070	50	1.50	2 - 50	800
SRF1006-102Y	1000 $\pm$ 40 %	0.180	50	0.95	1 - 40	1400
SRF1006-202Y	2000 $\pm$ 40 %	0.270	50	0.80	0.5 - 15	2000
SRF1006-302Y	3000 $\pm$ 40 %	0.330	50	0.70	0.5 - 10	3000
SRF1006-402Y	4000 $\pm$ 40 %	0.550	50	0.45	0.5 - 5	4000
SRF1006-472Y	4700 $\pm$ 40 %	0.720	50	0.35	0.6 - 3	6200
SRF1006-502Y	5000 $\pm$ 40 %	0.730	50	0.30	0.5 - 3	5000

\* Test condition: 0.1 V, 100 KHz

### Schematic



### Typical Part Marking



### How to Order

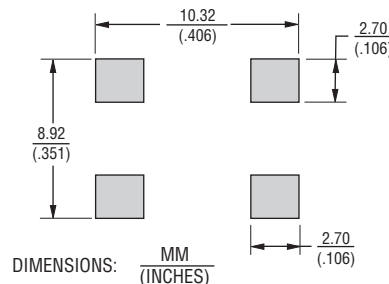
**SRF1006 - 102 Y**

Model \_\_\_\_\_

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

Tolerance Code \_\_\_\_\_  
Y = 40 %

### Recommended Layout



### General Specifications

Temperature Rise.. 45 °C at rated current  
Hi-Pot

120 - 1000  $\mu\text{H}$ ..... 1000 Vrms, 60 Hz,  
3 mA, 1 min.  
2000 - 5000  $\mu\text{H}$ ..... 300 Vrms, 60 Hz,  
3 mA, 1 min.

Operating Temperature

..... -40 °C to +105 °C  
(Temperature rise included)

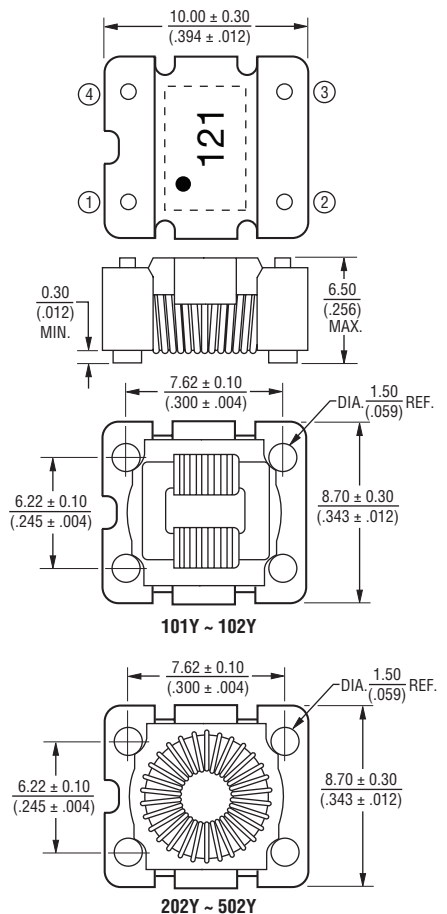
Storage Temperature .. -40 °C to +105 °C

Solderability ..... 245 °C for 5 sec.  
(JEDEC J-STD-020D)

### Materials

Core Material ..... Ferrite  
Base ..... Phenolic  
Wire ..... Enameled copper  
Terminal coating ..... Sn  
Packaging ..... 800 pcs. per 13-inch reel

### Product Dimensions



Specifications are subject to change without notice.

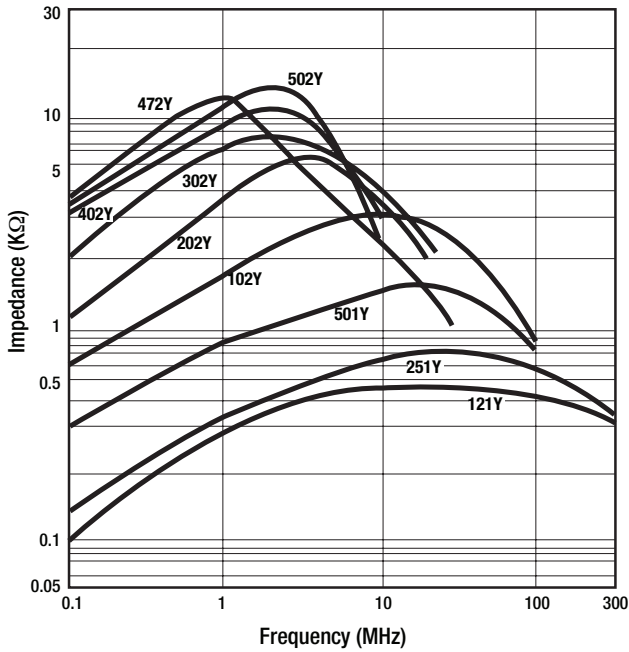
Users should verify actual device performance in their specific applications.

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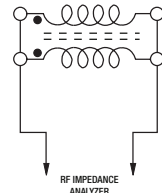
# SRF1006 Series - Line Filter

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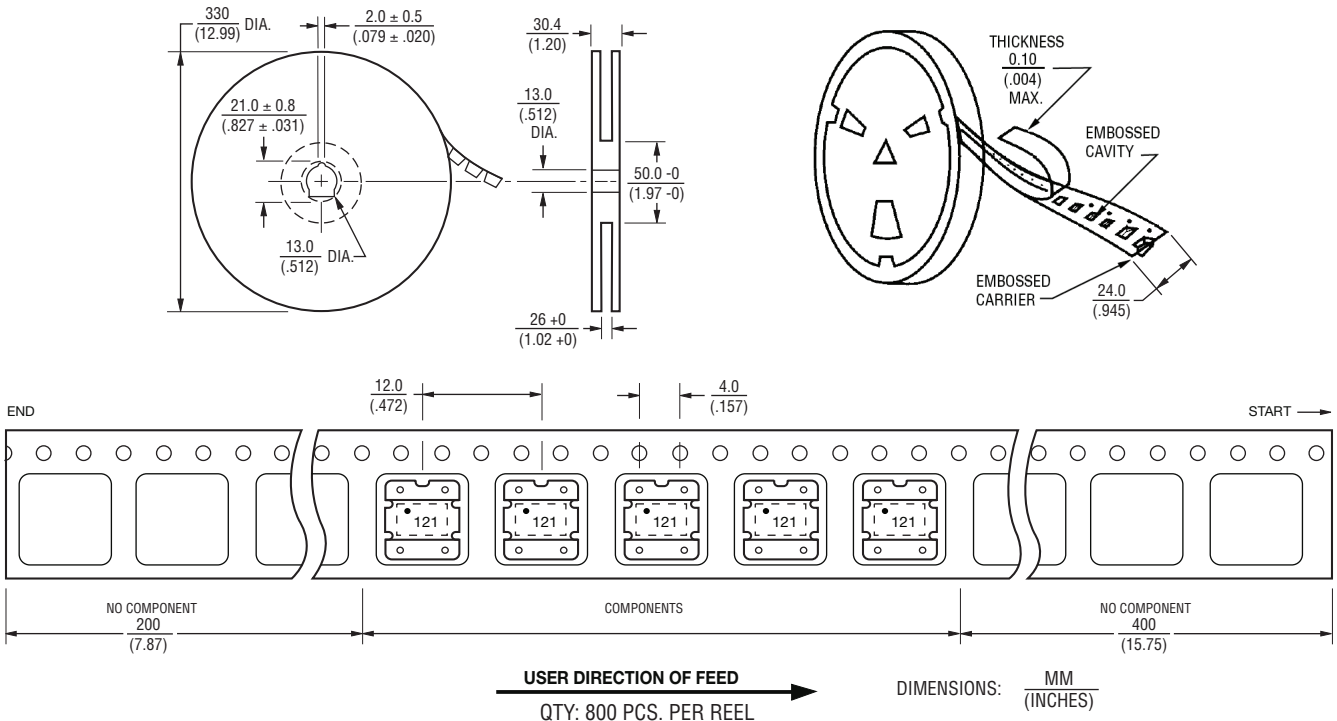
## Impedance Graph



MEASURING CIRCUIT



## Packaging Specifications



REV. 07/23

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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