



## Features

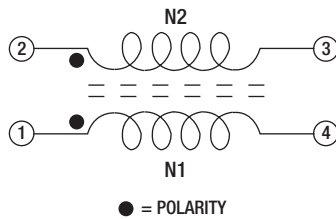
- Current rating up to 1.6 A
- Inductance range: 10 to 6500  $\mu$ H
- Frequency up to 300 MHz
- Dimensions: 9.2 x 6 x 5 mm
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## SRF0905A Series - Line Filter

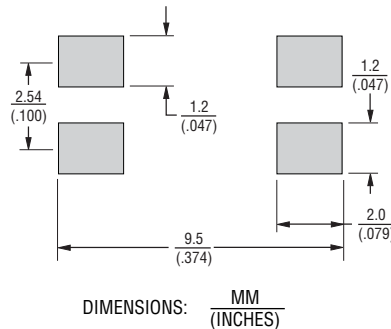
### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance			DCR ( $\Omega$ ) Max.	Rated Voltage (Vdc)	I rms (A)	Freq. Range (MHz)	Imped. ( $\Omega$ ) Min.
	L ( $\mu$ H)	Tol. (%)	Test Freq./ Voltage					
SRF0905A-100Y	10	$\pm 30$	1 kHz / 0.1 V	0.08	80	1.6	20 - 300	200
SRF0905A-250Y	25	$\pm 30$	1 kHz / 0.1 V	0.16	80	1.0	20 - 150	600
SRF0905A-400Y	40	$\pm 30$	1 kHz / 0.1 V	0.25	80	0.9	20 - 100	800
SRF0905A-500Y	50	$\pm 30$	1 kHz / 0.1 V	0.32	80	0.8	20 - 100	1500
SRF0905A-251Y	250	$\pm 50$	100 kHz / 5 mV	0.13	80	1.2	3 - 20	600
SRF0905A-471Y	470	$\pm 50$	100 kHz / 5 mV	0.14	80	1.1	2 - 20	1000
SRF0905A-501Y	500	$\pm 50$	100 kHz / 5 mV	0.15	80	1.0	1 - 20	1000
SRF0905A-102Y	1000	$\pm 50$	100 kHz / 5 mV	0.31	80	0.8	1 - 15	1500
SRF0905A-202Y	2000	$\pm 50$	100 kHz / 5 mV	0.42	80	0.6	1 - 5	3000
SRF0905A-472Y	4700	$\pm 50$	100 kHz / 5 mV	0.9	80	0.4	0.3 - 3	4000
SRF0905A-652Y	6500	$\pm 50$	100 kHz / 5 mV	1.05	80	0.3	0.3 - 2	5000

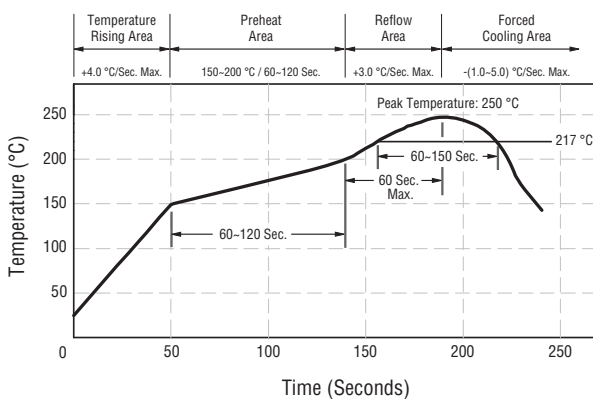
### Electrical Schematic



### Recommended Layout



### Soldering Profile



Peak Temperature: 250 °C max.  
 Max. Peak Temperature -5 °C: 30 sec. max.  
 Max. Time Above 217 °C: 90-150 sec. max.

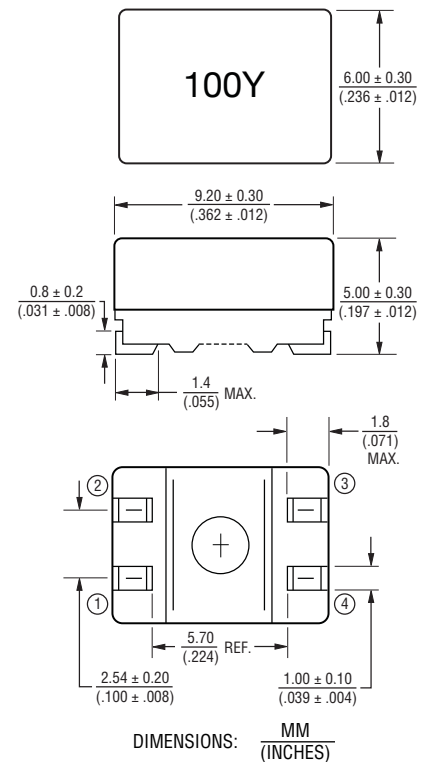
### General Specifications

Operating Temperature ..... -40 °C to +105 °C  
 (Temperature rise included)  
 Storage Temperature ..... -40 °C to +105 °C  
 Resistance to Solder Heat ..... +250 °C for 10 sec.  
 Temperature Rise ..... 45 °C typ. at rated I rms  
 Hi-Pot ..... 500 VAC, 60 Hz,  
 3 mA max. for 3 seconds

### Materials

Core ..... Ferrite, toroid  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn  
 Packaging ..... 1000 pcs. per reel

### Product Dimensions



### How to Order

SRF0905A - 100Y

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



**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.  
 \*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.  
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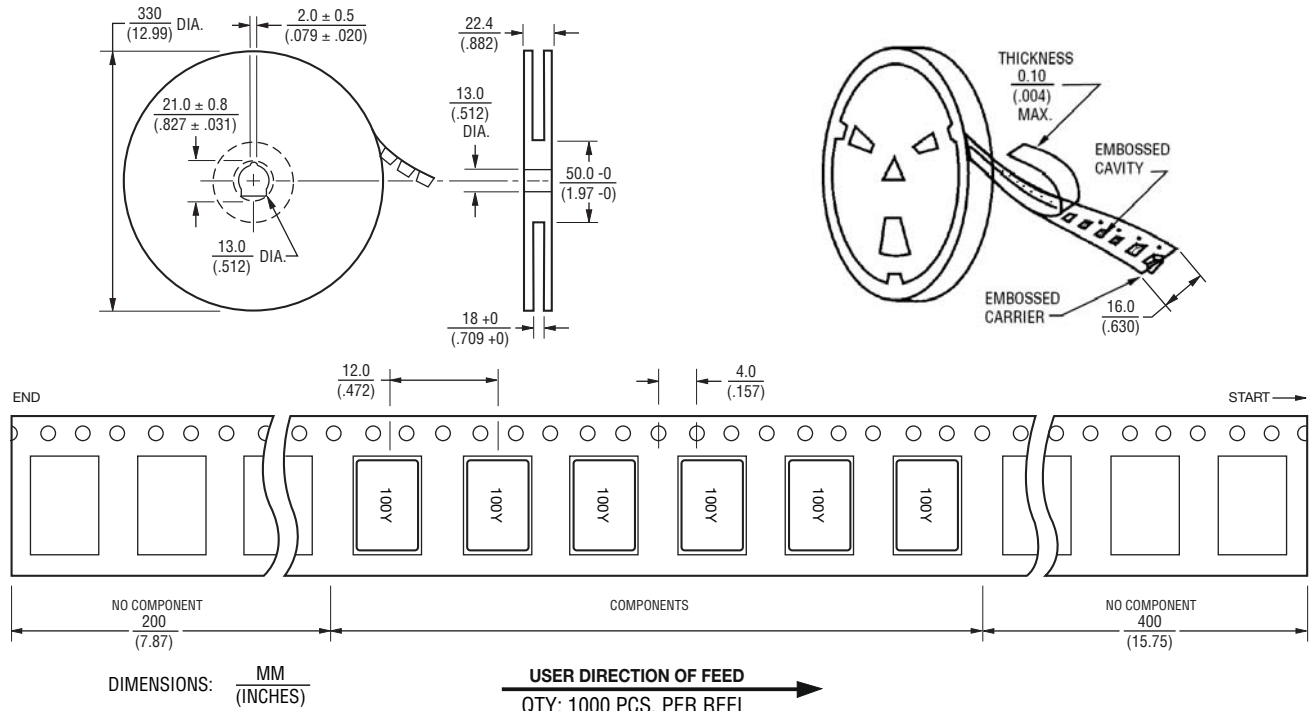
# SRF0905A Series - Line Filter

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## Impedance Graphs



## Packaging Specifications



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