



**THE DATASHEET OF
SRF0905A-102Y**





Features

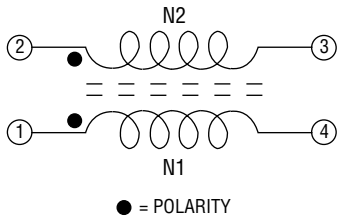
- Current rating up to 1.6 A
- Inductance range: 10 to 6500 μ H
- Frequency up to 300 MHz
- Dimensions: 9.2 x 6 x 5 mm
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRF0905A Series - Line Filter

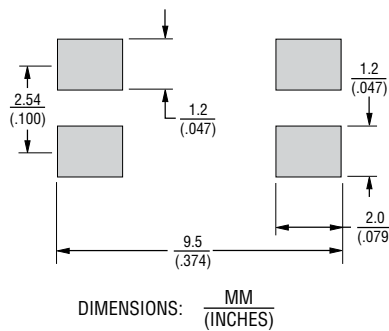
Electrical Specifications @ 25 °C

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

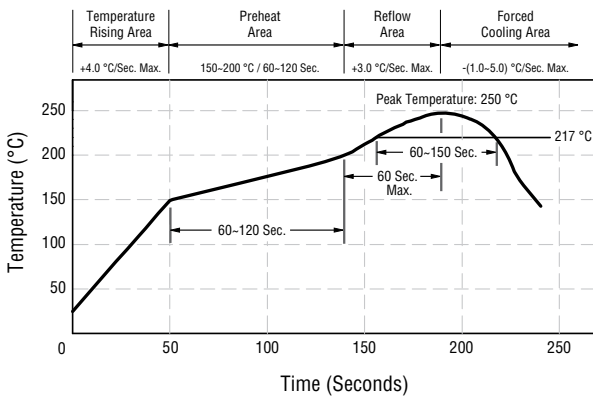
Electrical Schematic



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.



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

**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.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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General Specifications

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

Storage Temperature-40 °C to +105 °C

Temperature Rise45 °C typ. at rated I_{rms}

Hi-Pot 500 VAC, 60 Hz,
3 mA max. for 3 seconds

Materials

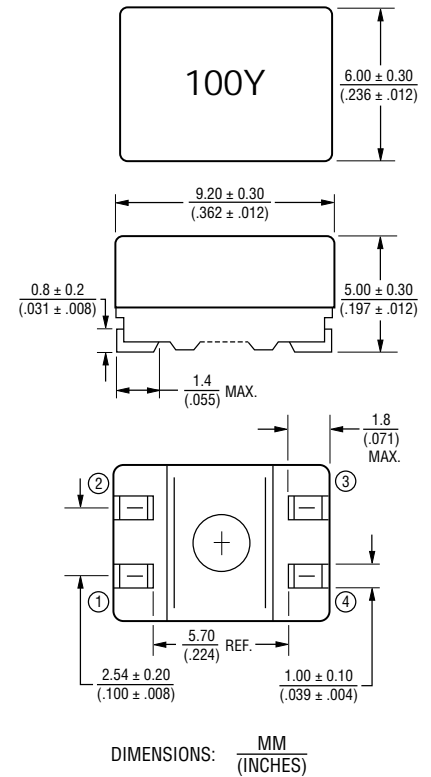
Core.....Ferrite, toroid

Wire.....Enameled copper

Terminal FinishSn

Packaging..... 1000 pcs. per reel

Product Dimensions



How to Order

SRF0905A - 100Y

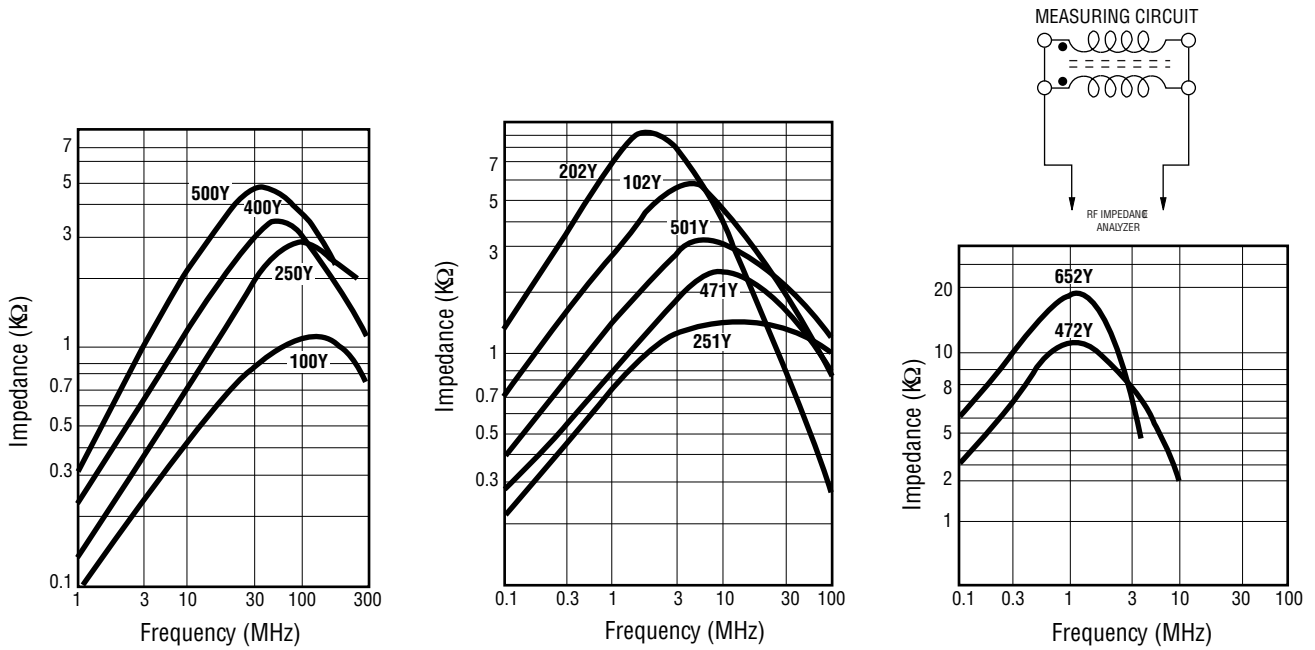
Model _____

Value Code (see table) _____

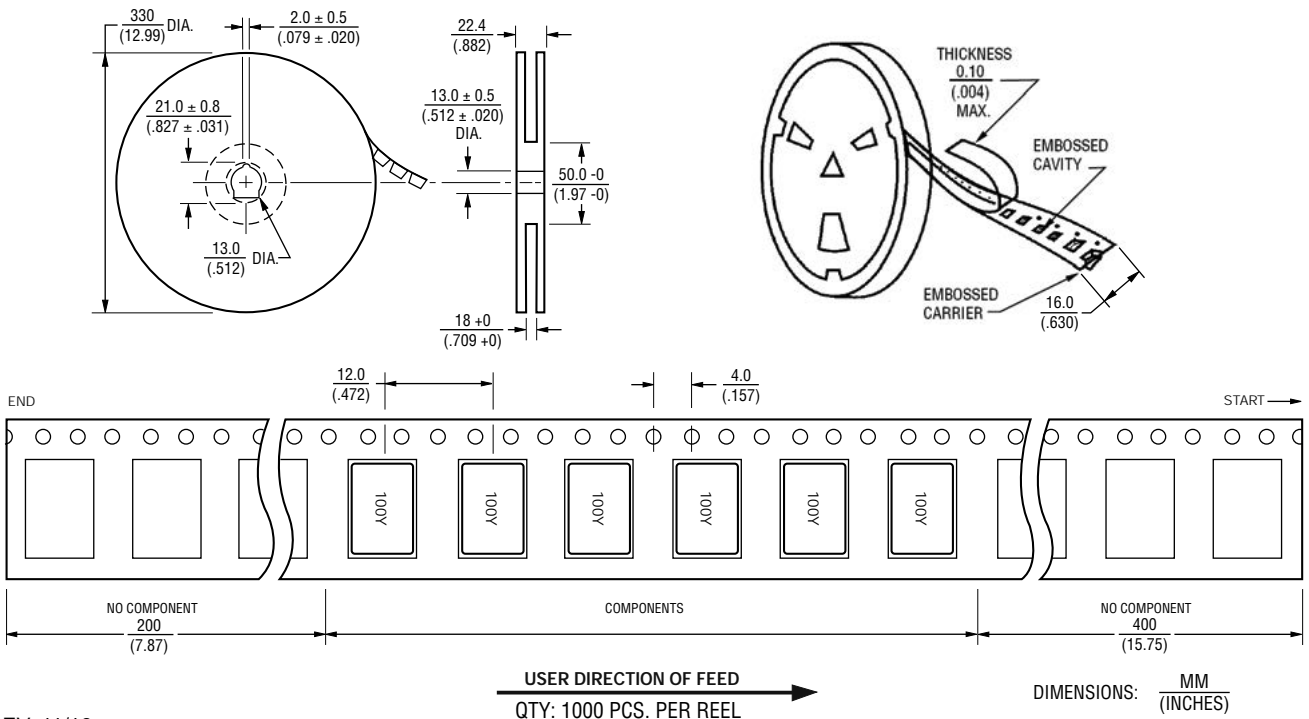
SRF0905A Series - Line Filter

BOURNS®

Impedance Graphs



Packaging Specifications



REV. 11/19

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