

Features

- Current rating up to 1.6 A
- Inductance range: 10 to 6500 µH
- Frequency range to 300 MHz
- RoHS compliant*

Applications

■ EMI suppression

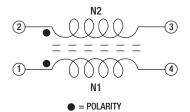
SRF0905 Series - Line Filter

Electrical Specifications @ 25 °C

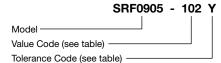
| | | Leakage | DCR | | | Impedance (Z) | |
|--------------|--------------|----------------------|-------------------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Part Number | L (μΗ) ** | Ind. (µH) Max. | (Ω) max. (each winding) | Rated Voltage (Vdc) | Rated Current (A) | Freq. Range (MHz) | Min. Value (Ω) |
| SRF0905-100Y | 10 ± 30 % | 8 | 0.08 | 50 | 1.6 | 20 - 300 | 200 |
| SRF0905-250Y | 25 ± 30 % | 16 | 0.16 | 50 | 1.0 | 20 - 150 | 600 |
| SRF0905-400Y | 40 ± 30 % | 18 | 0.25 | 50 | 0.9 | 20 - 100 | 800 |
| SRF0905-500Y | 50 ± 30 % | 22 | 0.32 | 50 | 0.8 | 20 - 100 | 1500 |
| SRF0905-251Y | 250 ± 50 % | 0.11 | 0.13 | 50 | 1.2 | 3 - 20 | 600 |
| SRF0905-471Y | 470 ± 50 % | 0.12 | 0.14 | 50 | 1.1 | 2 - 20 | 1000 |
| SRF0905-501Y | 500 ± 50 % | 0.12 | 0.15 | 50 | 1.0 | 1 - 20 | 1000 |
| SRF0905-102Y | 1000 ± 50 % | 0.17 | 0.31 | 50 | 0.8 | 1 - 15 | 1500 |
| SRF0905-202Y | 2000 ± 50 % | 0.25 | 0.42 | 50 | 0.6 | 1 - 5 | 3000 |
| SRF0905-472Y | 4700 ± 50 % | 0.36 | 0.90 | 50 | 0.4 | 0.3 - 3 | 4000 |
| SRF0905-652Y | 6500 ± 50 % | 0.39 | 1.05 | 50 | 0.3 | 0.3 - 2 | 5000 |

 $^{^{**}}$ Test condition: 10 - 50 $\mu H,\, 0.1$ V, 1 KHz; 250 - 6500 $\mu H,\, 5$ mV, 100 KHz

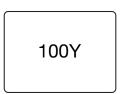
Schematic



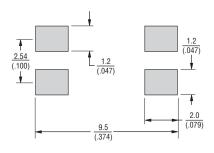
How to Order



Typical Part Marking



Recommended Layout



General Specifications

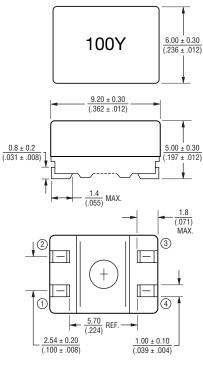
Temperature Rise.. 45 °C at rated current Hi-Pot500 VAC, 60 Hz, 3 mA max. for 3 seconds Operating Temperature

-40 °C to +105 °C (Temperature rise included) Storage Temperature .. -40 °C to +105 °C Solderability......260 °C for 5 sec. (JEDEC J-STD-020D)

Materials

| Core Material | Ferrite |
|------------------|---------------------|
| Base | LCP |
| Wire | Enameled copper |
| Terminal coating | Sn |
| Packaging1000 pc | s. per 13-inch reel |

Product Dimensions

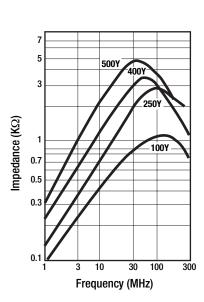


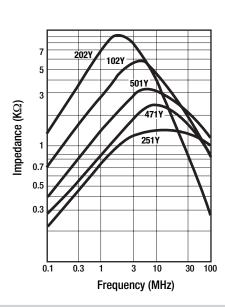
MM DIMENSIONS: (INCHES)

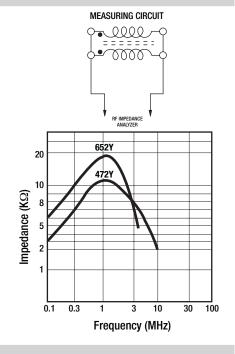
SRF0905 Series - Line Filter

BOURNS

Impedance Graphs







Packaging Specifications

