

Features

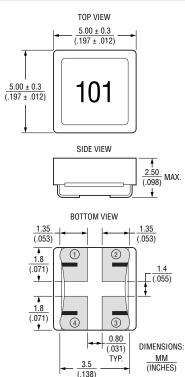
- Shielded construction
- Low profile: 2.5 mm
- Current rating up to 6 A
- Frequency range to 900 MHz
- RoHS compliant* and halogen free**

SRF0502 Series – Line Filter

Electrical Specifications @ 25 °C

	Common				Impedance (Z)	
Part Number	Mode Impedance @ 100 MHz (kΩ)	Inductance @ 100 kHz / 0.1 V (μH)	Rated Current (mA)	DCR Max. (mΩ)	Freq. Range (MHz)	Min. Value (Ω)
SRF0502-101Y	0.10 ± 35 %	0.23	6.0	15.0	90 - 900	60
SRF0502-251Y	0.25 ± 35 %	0.55	5.0	20.0	80 - 700	120
SRF0502-501Y	0.50 ± 35 %	1.10	4.0	30.0	60 - 300	200
SRF0502-102Y	1.00 ± 35 %	2.50	2.0	45.0	50 - 200	400
SRF0502-142Y	1.40 ± 35 %	2.60	1.5	55.0	40 - 160	450

Product Dimensions



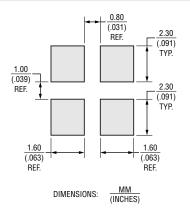


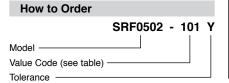
- * RoHS Directive 2015/863, Mar 31, 2015 and Annex. ** Bourns considers a product to be "halogen free" if (a) the Promine (Pr) contant is 000 npm or loss:
- (a) the Bromine (Br) content is 900 ppm or less;
 (b) the Chlorine (Cl) content is 900 ppm or less; and
 (c) the total Bromine (Br) and Chlorine (Cl) content
- is 1500 ppm or less. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

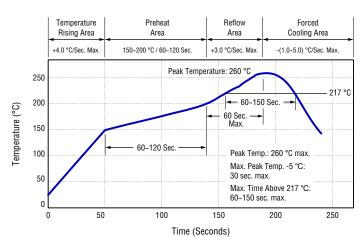
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Recommended Layout





Soldering Profile



Additional Information

Click these links for more information:



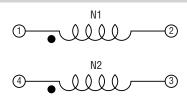
General Specifications

Operating Temperature

Materials

Core Material	Ferrite
Wire	Enameled copper
Terminal Finish	Sn
Packaging 3,000 pc	cs. per 13-inch reel

Schematic

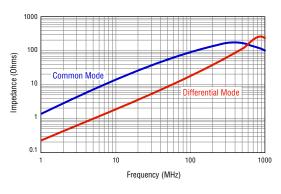


Applications

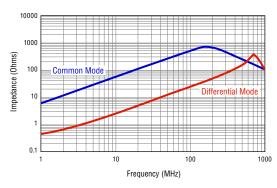
EMI suppression

SRF0502 Series – Line Filter

Typical Impedance vs. Frequency Curves SRF0502-101Y



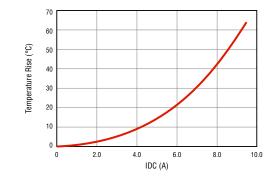
SRF0502-501Y



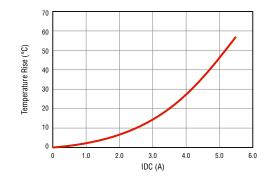
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Temperature Rise Plots





SRF0502-501Y

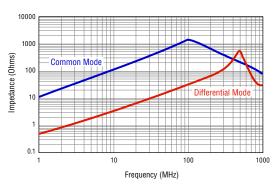


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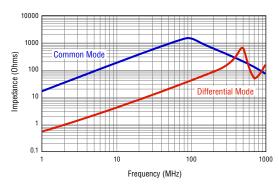
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SRF0502 Series – Line Filter

Typical Impedance vs. Frequency Curves SRF0502-102Y



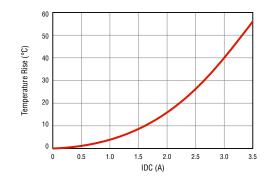
SRF0502-142Y



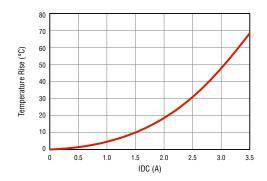
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Temperature Rise Plots





SRF0502-142Y



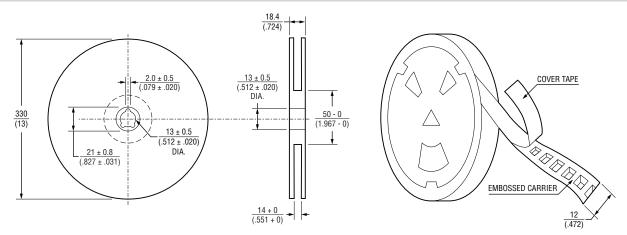
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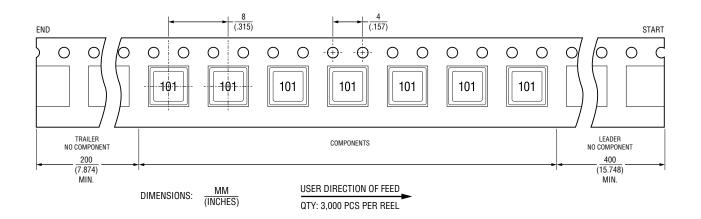
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SRF0502 Series – Line Filter

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Packaging Specifications





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REV. 09/24

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