

Features

- Current rating up to 1.4 A
- Inductance range: 120 to 5000 μ H
- Frequency range to 200 MHz
- RoHS compliant*

Applications

- EMI suppression

SRF1006 Series - Line Filter

Electrical Specifications @ 25 °C

Part Number	L (μ H) *	Leakage Ind. (μ H) Max.	DCR (Ω) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)	
						Freq. Range (MHz)	Min. Value (Ω)
SRF1006-121Y	120 \pm 40 %	1.45	0.025	50	1.40	10 - 200	200
SRF1006-251Y	250 \pm 40 %	3.2	0.035	50	1.19	5 - 100	400
SRF1006-501Y	500 \pm 40 %	5.6	0.070	50	0.84	2 - 50	800
SRF1006-102Y	1000 \pm 40 %	12	0.180	50	0.52	1 - 40	1400
SRF1006-202Y	2000 \pm 40 %	0.23	0.270	50	0.40	0.5 - 15	2000
SRF1006-302Y	3000 \pm 40 %	0.26	0.330	50	0.35	0.5 - 10	3000
SRF1006-402Y	4000 \pm 40 %	0.27	0.550	50	0.30	0.5 - 5	4000
SRF1006-472Y	4700 \pm 40 %	0.28	1.000	50	0.25	0.6 - 3	6200
SRF1006-502Y	5000 \pm 40 %	0.29	0.620	50	0.25	0.5 - 3	5000

* Test condition: 0.1 V, 100 KHz

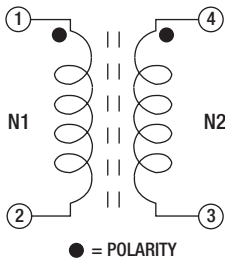
General Specifications

Temperature Rise .. 45 °C at rated current
 Hi-Pot
 120 - 1000 μ H..... 1000 Vrms, 60 Hz, 3 mA, 1 min.
 2000 - 5000 μ 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)

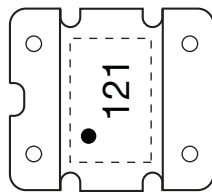
Materials

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

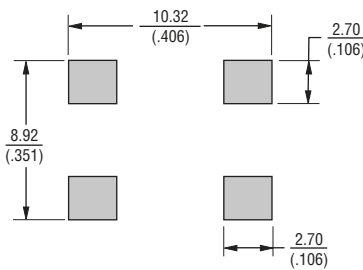
Schematic



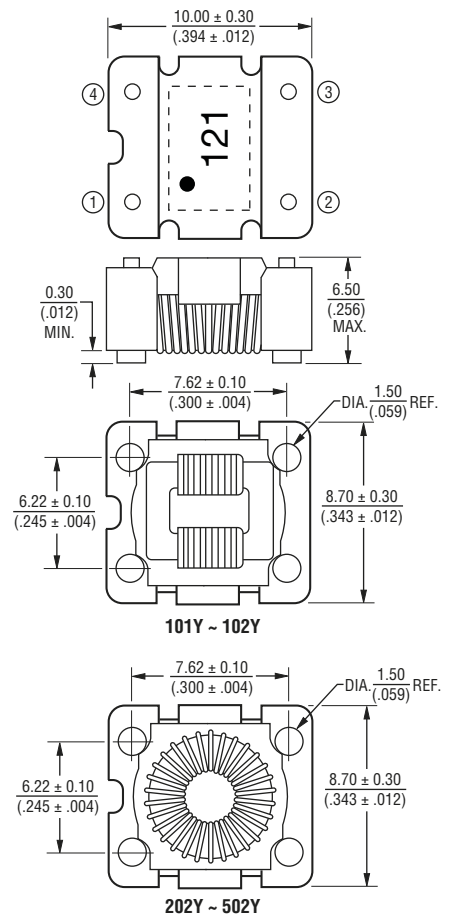
Typical Part Marking



Recommended Layout



Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

How to Order

Model _____ SRF1006 - 102 Y
 Value Code (see table) _____
 Tolerance Code _____
 Y = 40 %



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 Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510
 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com



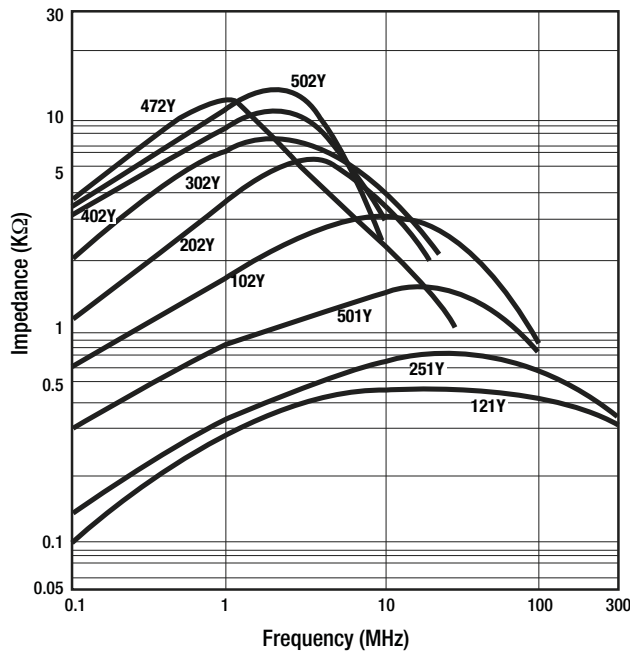
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

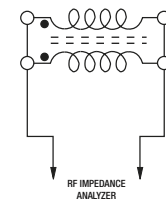
SRF1006 Series - Line Filter

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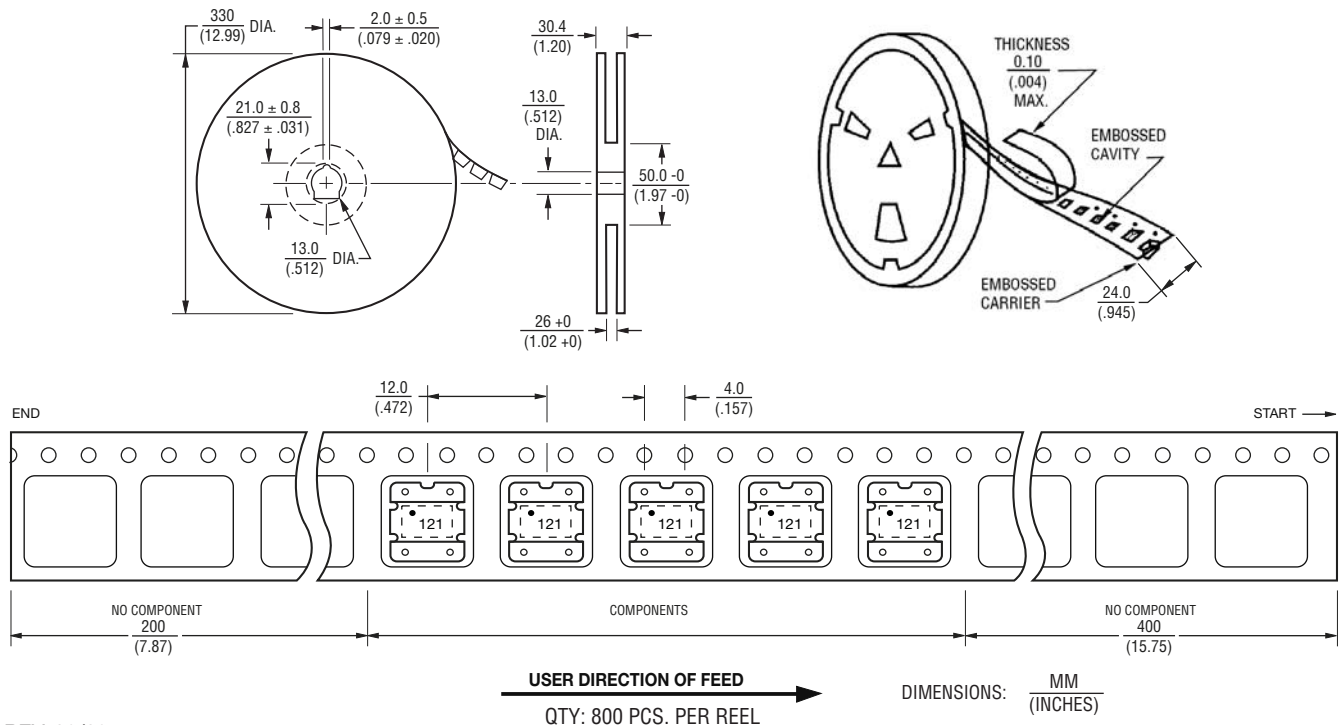
Impedance Graph



MEASURING CIRCUIT



Packaging Specifications



REV. 09/09

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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