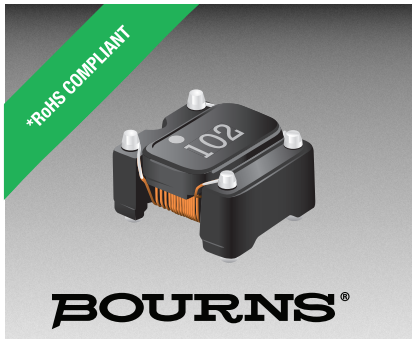




**THE DATASHEET OF
SRF1006-302Y**





Features

- Current rating up to 2.5 A
- Inductance range: 120 to 5000 μ H
- Frequency range to 200 MHz
- RoHS compliant*

Applications

- EMI suppression

SRF1006 Series - Line Filter

Additional Information

Click these links for more information:



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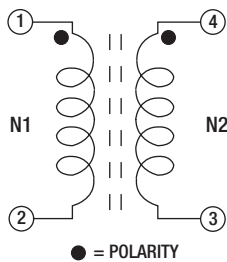
[CONTACT](#)

Electrical Specifications @ 25 °C

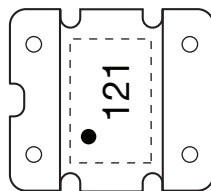
Part Number	L (μ H) *	DCR (Ω) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)	
					Freq. Range (MHz)	Min. Value (Ω)
SRF1006-121Y	120 \pm 40 %	0.025	50	2.50	10 - 200	200
SRF1006-251Y	250 \pm 40 %	0.035	50	2.00	5 - 100	400
SRF1006-501Y	500 \pm 40 %	0.070	50	1.50	2 - 50	800
SRF1006-102Y	1000 \pm 40 %	0.180	50	0.95	1 - 40	1400
SRF1006-202Y	2000 \pm 40 %	0.270	50	0.80	0.5 - 15	2000
SRF1006-302Y	3000 \pm 40 %	0.330	50	0.70	0.5 - 10	3000
SRF1006-402Y	4000 \pm 40 %	0.550	50	0.45	0.5 - 5	4000
SRF1006-472Y	4700 \pm 40 %	0.720	50	0.35	0.6 - 3	6200
SRF1006-502Y	5000 \pm 40 %	0.730	50	0.30	0.5 - 3	5000

* Test condition: 0.1 V, 100 KHz

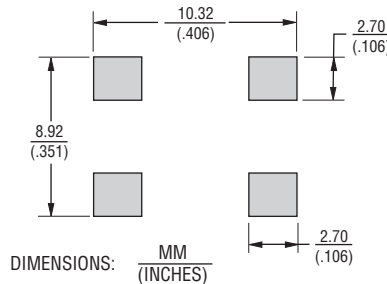
Schematic



Typical Part Marking



Recommended Layout



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)

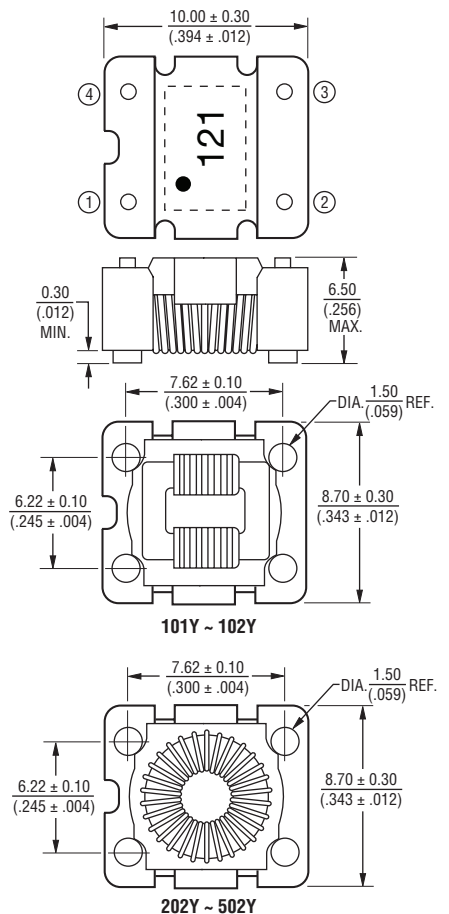
Storage Temperature .. -40 °C to +105 °C

Solderability 245 °C for 5 sec.
(JEDEC J-STD-020D)

Materials

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

Product Dimensions

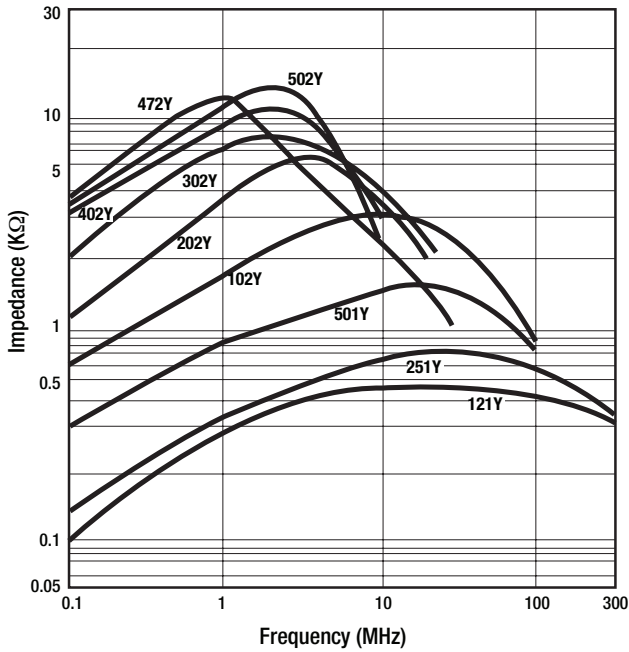


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Users should verify actual device performance in their specific applications.
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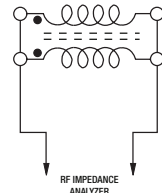
SRF1006 Series - Line Filter

BOURNS®

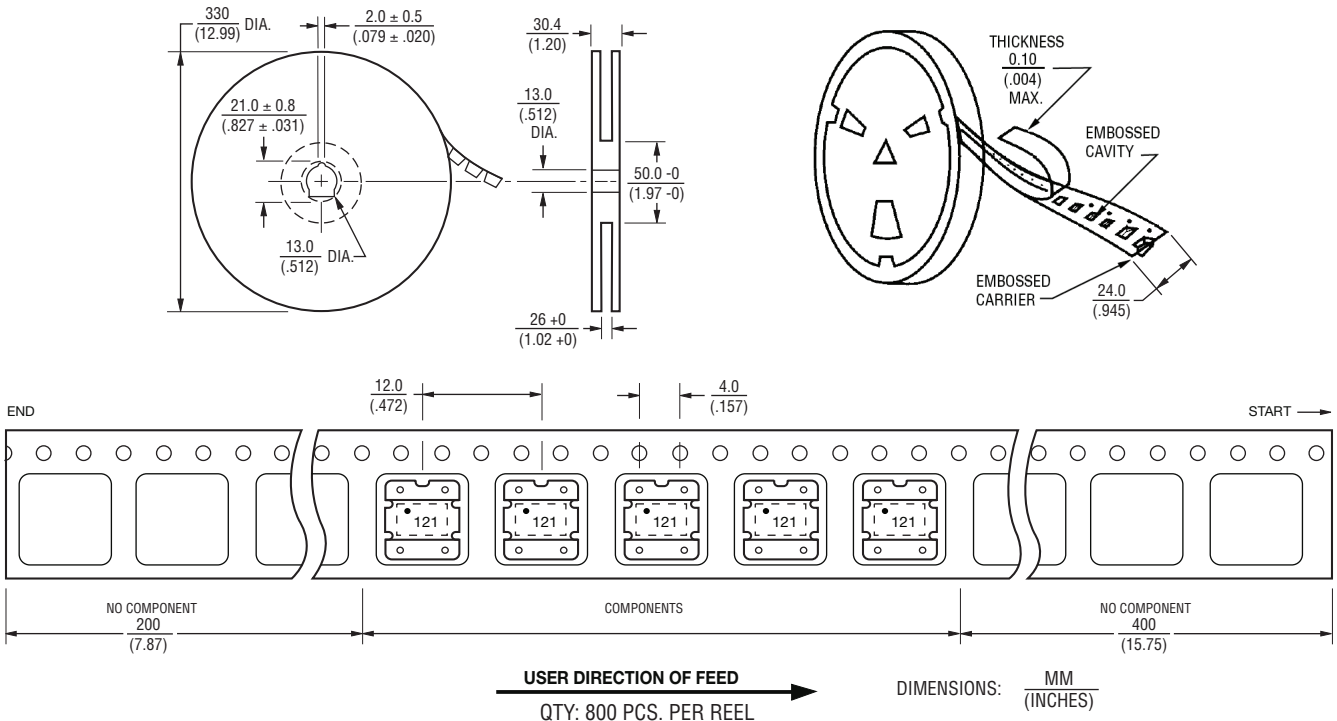
Impedance Graph



MEASURING CIRCUIT



Packaging Specifications



REV. 07/23

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