



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

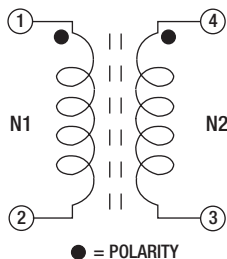
SRF1006 Series - Line Filter

Electrical Specifications @ 25 °C

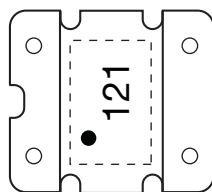
Part Number	L (μ H) *	Leakage Ind. (μ H) Max.	DCR (Ω) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)	
						Freq. Range (MHz)	Min. Value (Ω)
SRF1006-121Y	120 $\pm$ 40 %	1.45	0.025	50	1.40	10 - 200	200
SRF1006-251Y	250 $\pm$ 40 %	3.2	0.035	50	1.19	5 - 100	400
SRF1006-501Y	500 $\pm$ 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

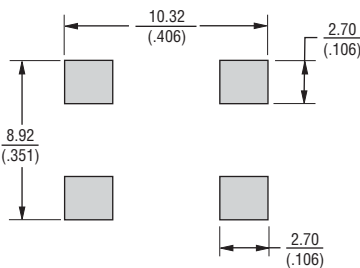
Schematic



Typical Part Marking



Recommended Layout



How to Order

Model **SRF1006 - 102 Y**

Value Code (see table)

Tolerance Code
Y = 40 %



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 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com

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)

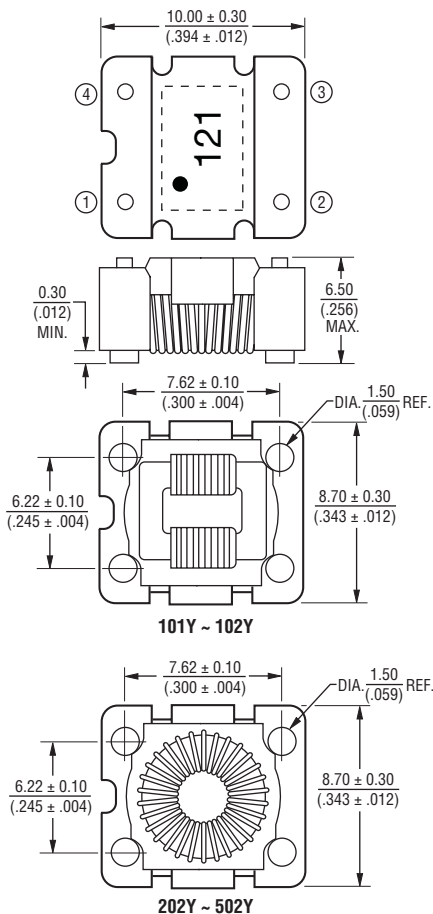
Storage Temperature .. -40 °C to +105 °C

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



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

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

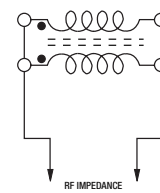
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications

BOURNS®

A log-log plot showing the impedance (in KΩ) versus frequency (in MHz) for several vacuum tube diodes. The y-axis ranges from 0.05 to 30 KΩ, and the x-axis ranges from 0.1 to 300 MHz. The diodes shown are 472Y, 502Y, 402Y, 302Y, 202Y, 102Y, 501Y, 251Y, and 121Y. Each curve represents the impedance of a specific diode across the frequency range.

Diode Type	Approx. Peak Impedance (KΩ)	Approx. Peak Frequency (MHz)
472Y	12	1.5
502Y	15	2.5
402Y	8	1.0
302Y	7	1.0
202Y	5	1.0
102Y	4	1.0
501Y	3	10.0
251Y	0.8	100.0
121Y	0.5	100.0



Technical drawing of a 1000 MHz 100 W CW Traveling Wave Tube (TWT) showing top, side, and detail views with dimensions in inches and millimeters.

Top View Dimensions:

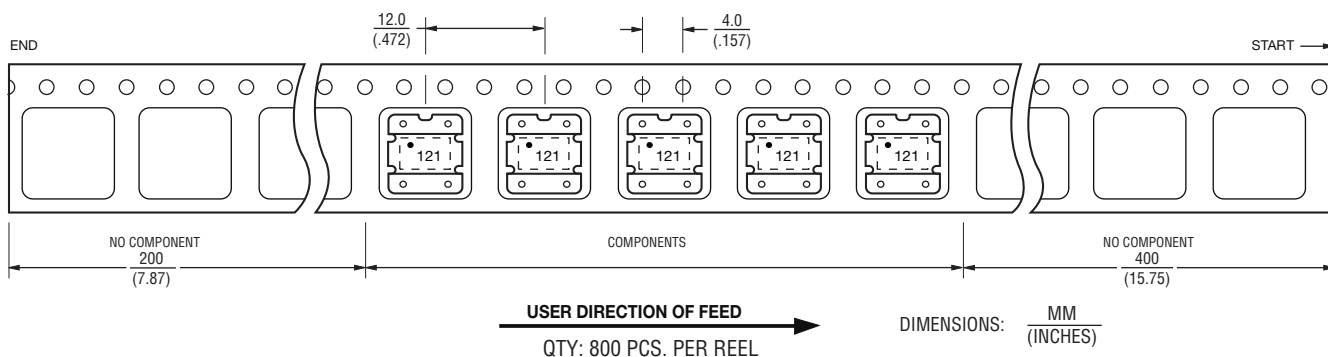
- Overall Diameter: 330 (12.99) DIA.
- Inner Hole Diameter: 21.0 ± 0.8 (.827 ± .031)
- Inner Hole Diameter: 13.0 (.512) DIA.
- Distance from Center to Feature: 2.0 ± 0.5 (.079 ± .020)

Side View Dimensions:

- Overall Length: 30.4 (1.20)
- Inner Hole Diameter: 13.0 (.512) DIA.
- Distance from End to Feature: 50.0 -0 (1.97 -0)
- Distance from End to Feature: 26 +0 (1.02 +0)

Detail View Dimensions:

- THICKNESS: 0.10 (.004) MAX.
- EMBOSS CAVITY
- EMBOSS CARRIER
- Distance from End to Feature: 24.0 (.945)



Customers should verify actual device performance in their specific applications

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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