



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

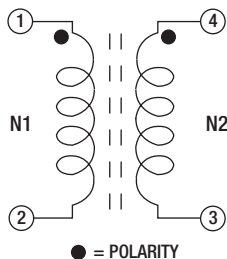
SRF1006 Series - Line Filter

Electrical Specifications @ 25 °C

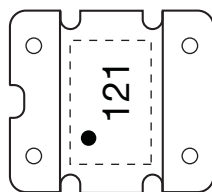
Part Number	L (μ H) *	Leakage Ind. (μ H) Max.	DCR (Ω) max. (each winding)	Rated Voltage (Vdc)	Rated Current (A)	Impedance (Z)	
						Freq. Range (MHz)	Min. Value (Ω)
SRF1006-121Y	120 $\pm$ 40 %	1.45	0.025	50	1.40	10 - 200	200
SRF1006-251Y	250 $\pm$ 40 %	3.2	0.035	50	1.19	5 - 100	400
SRF1006-501Y	500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

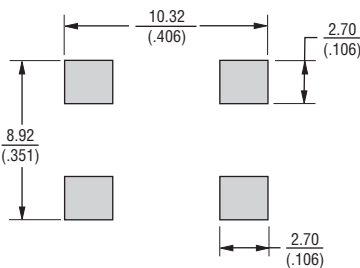
Schematic



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)

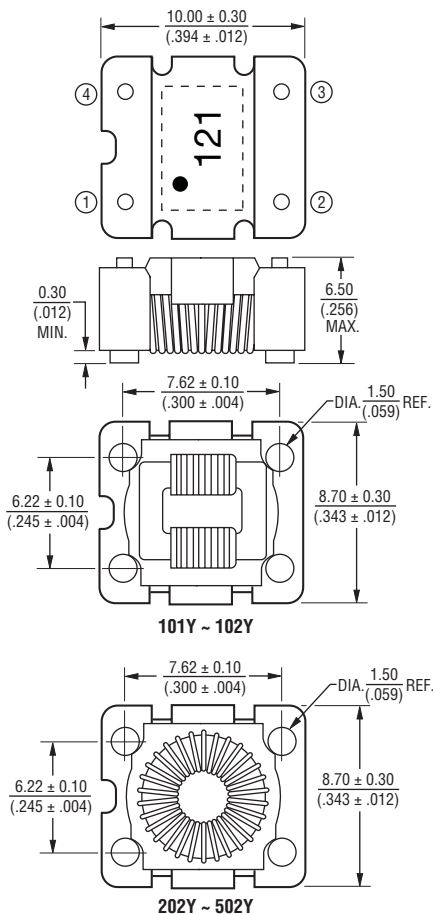
Storage Temperature .. -40 °C to +105 °C

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.

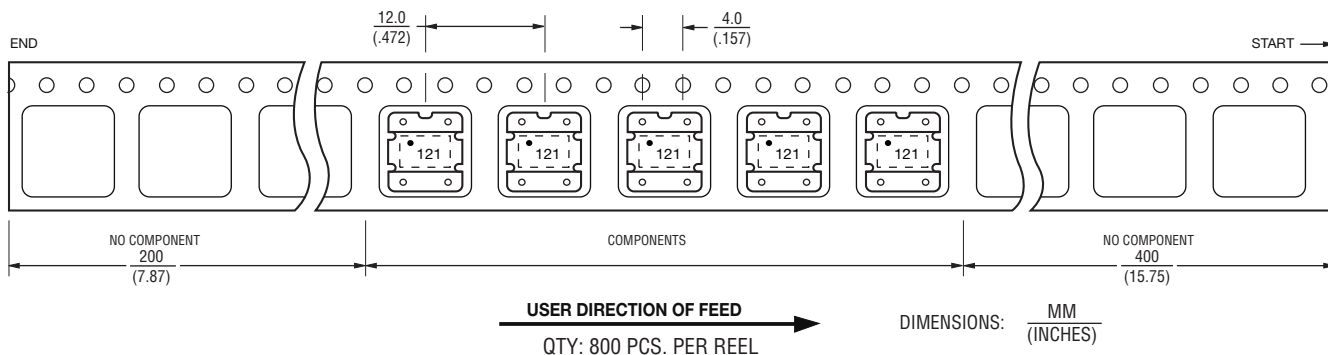
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications

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The graph plots Impedance ($K\Omega$) on the y-axis against Frequency (MHz) on the x-axis. The y-axis is logarithmic, ranging from 0.05 to 30. The x-axis is also logarithmic, ranging from 0.1 to 300. Nine curves are shown, each labeled with a Yagi antenna model. The curves generally show a peak impedance at a specific frequency, followed by a decline at higher frequencies.

Frequency (MHz)	472Y ($K\Omega$)	502Y ($K\Omega$)	402Y ($K\Omega$)	302Y ($K\Omega$)	202Y ($K\Omega$)	102Y ($K\Omega$)	501Y ($K\Omega$)	251Y ($K\Omega$)	121Y ($K\Omega$)
0.1	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.6	0.3
1	12.0	10.0	8.0	6.0	4.0	2.5	1.5	0.8	0.4
10	3.0	2.0	1.5	1.0	0.6	0.4	0.25	0.6	0.45
100	0.8	0.5	0.4	0.3	0.2	0.15	0.1	0.4	0.35

[illegible]

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