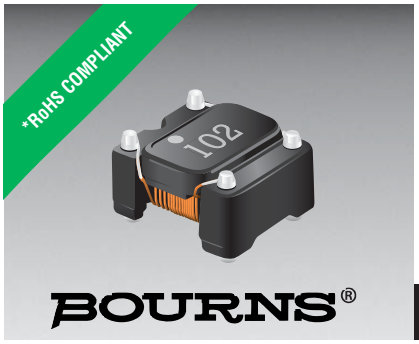


Features

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

Applications

- EMI suppression

SRF1006 Series - Line Filter

Electrical Specifications @ 25 °C

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

* Test condition: 0.1 V, 100 KHz

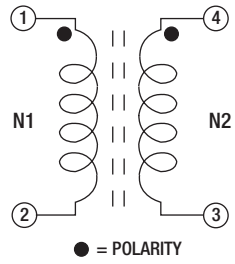
General Specifications

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

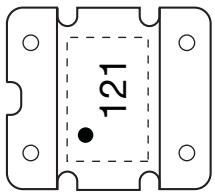
Materials

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

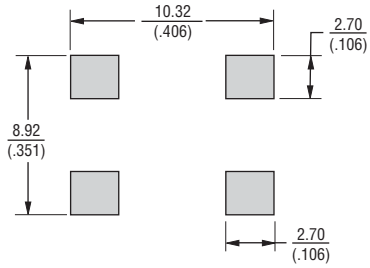
Schematic



Typical Part Marking



Recommended Layout

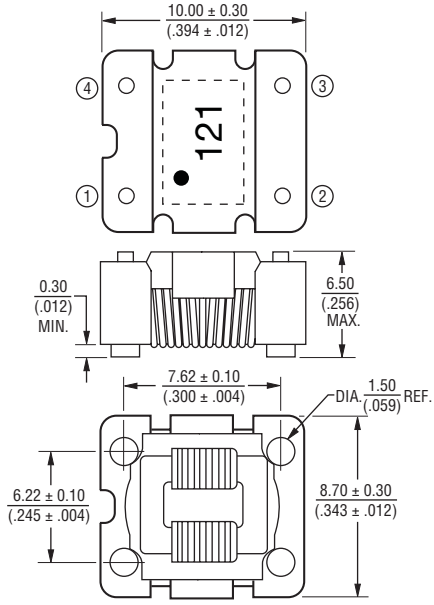


How to Order

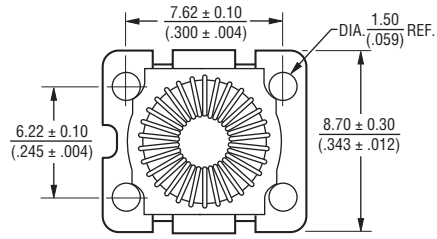
SRF1006 - 102 Y

Model
Value Code (see table)
Tolerance Code
Y = 40 %

Product Dimensions



101Y ~ 102Y



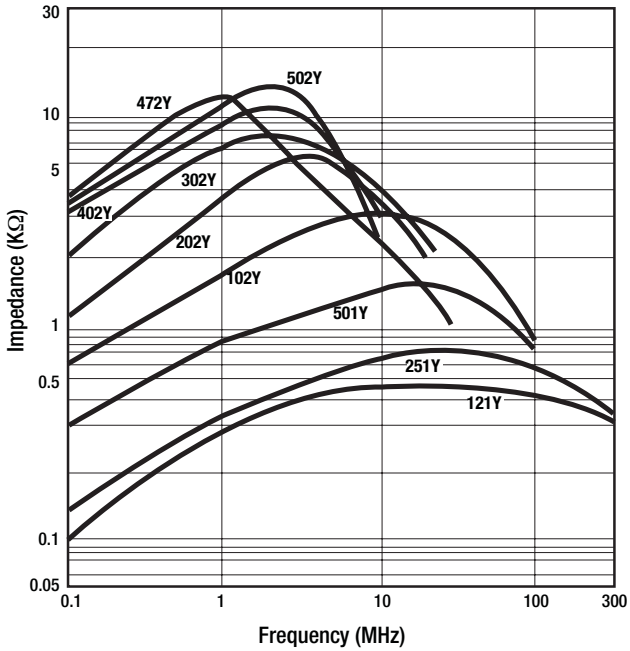
202Y ~ 502Y

DIMENSIONS: MM (INCHES)

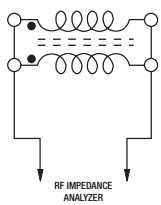
Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510
The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
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*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications

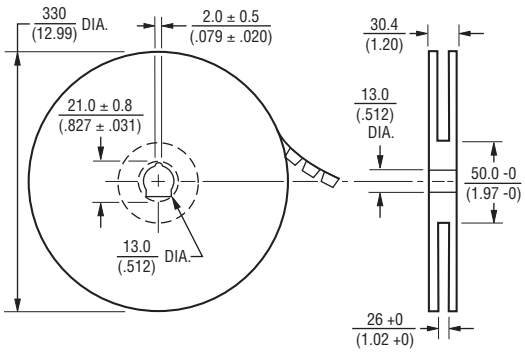
Impedance Graph

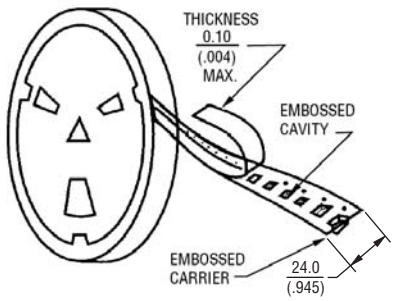


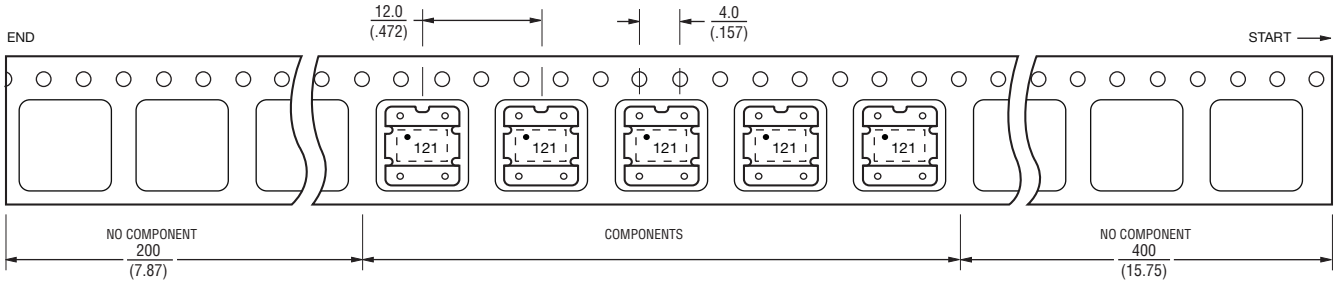
MEASURING CIRCUIT



Packaging Specifications







USER DIRECTION OF FEED

QTY: 800 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 09/09

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications