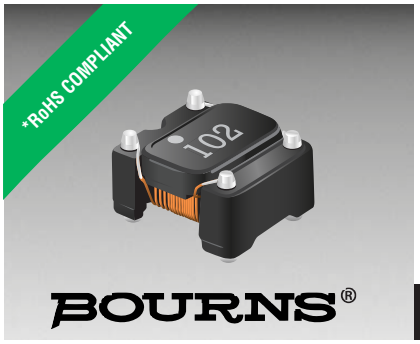


Features

- 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)	Impedance (Z) 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

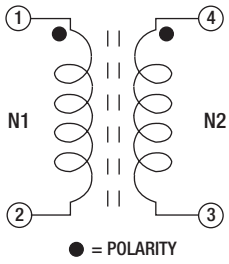
General Specifications

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)

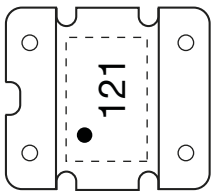
Materials

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

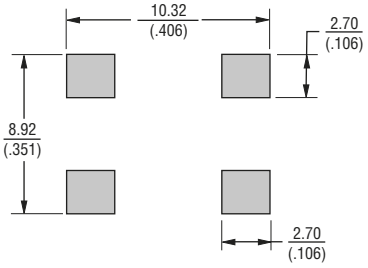
Schematic



Typical Part Marking



Recommended Layout

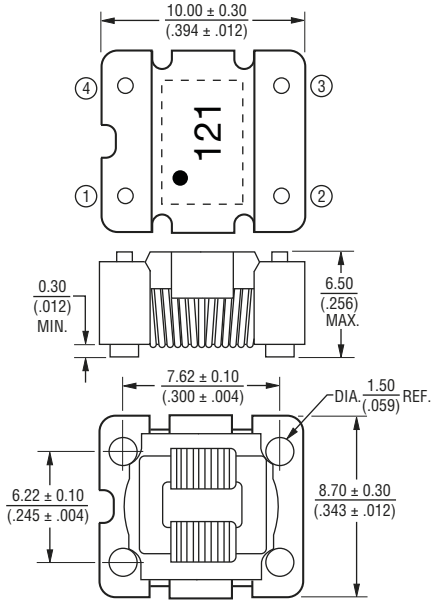


How to Order

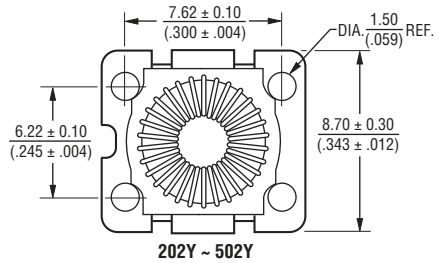
SRF1006 - 102 Y

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
www.bourns.com

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

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

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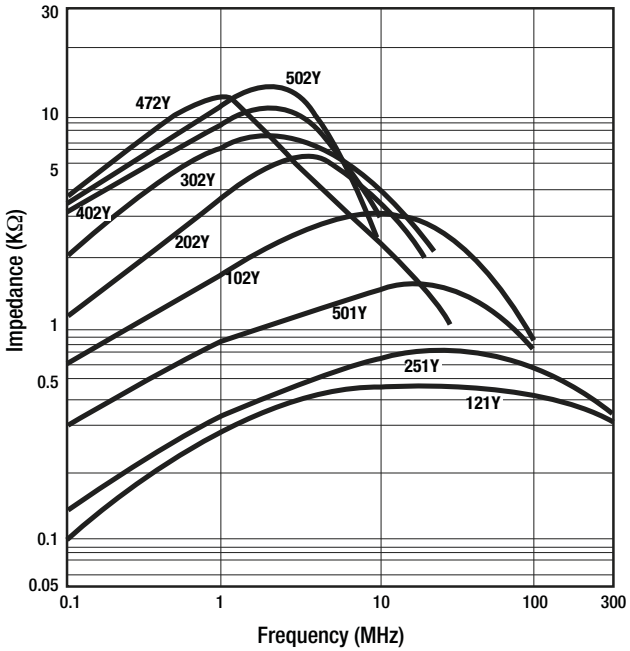
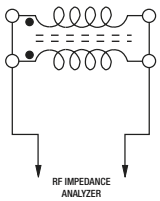
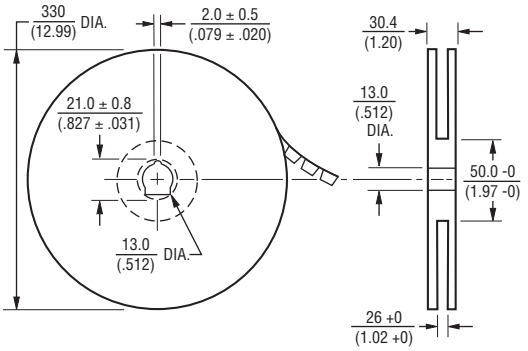
Impedance Graph

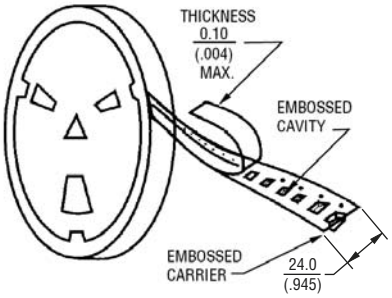


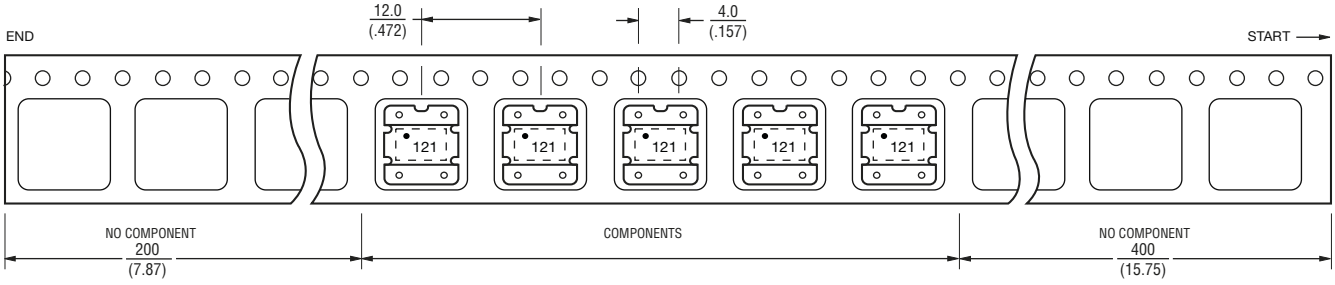
MEASURING CIRCUIT



Packaging Specifications







USER DIRECTION OF FEED

QTY: 800 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 09/09

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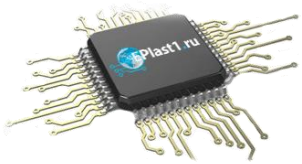
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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