



Features

- Current rating up to 2.7 A
- Inductance range: 35 to 1000 μ H
- Frequency range to 250 MHz
- RoHS compliant*

Applications

- EMI suppression

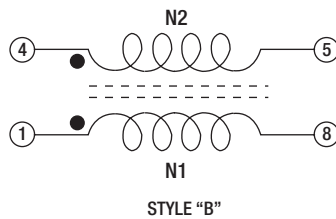
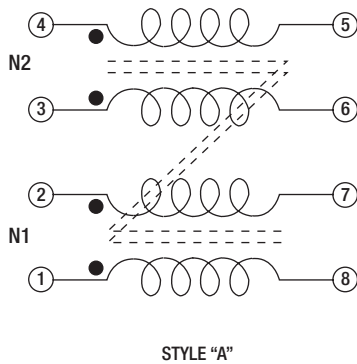
SRF1306 Series - Line Filter

Electrical Specifications @ 25 °C

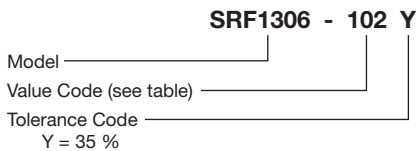
| Part Number | L (μ H) * | Leakage Ind. (μ H) Max. | DCR (Ω) max. (each winding) | Rated Voltage (Vdc) | Rated Current (A) | Impedance (Z) | | Electrical Schematic |
|--------------|-----------------|------------------------------|--------------------------------------|---------------------|-------------------|-------------------|-------------------------|----------------------|
| | | | | | | Freq. Range (MHz) | Min. Value (Ω) | |
| SRF1306-350Y | 35 \pm 35 % | 4 | 0.035 | 50 | 2.70 | 5 - 250 | 400 | B |
| SRF1306-600Y | 60 \pm 35 % | 5 | 0.065 | 50 | 2.00 | 5 - 100 | 600 | B |
| SRF1306-101Y | 100 \pm 35 % | 15 | 0.100 | 50 | 0.70 | 1 - 50 | 300 | A |
| SRF1306-251Y | 250 \pm 35 % | 25 | 0.150 | 50 | 0.60 | 1 - 40 | 600 | A |
| SRF1306-501Y | 500 \pm 35 % | 35 | 0.300 | 50 | 0.40 | 1 - 40 | 1200 | A |
| SRF1306-102Y | 1000 \pm 35 % | 45 | 0.400 | 50 | 0.35 | 0.5 - 10 | 2200 | A |

* Test condition: 0.1 V, 100 KHz

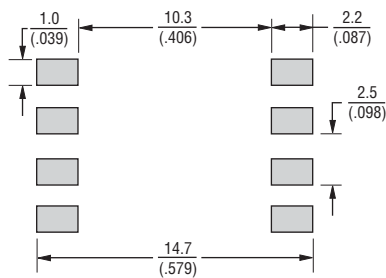
Schematics



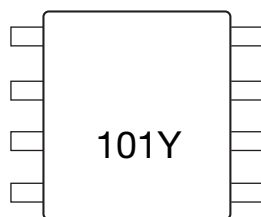
How to Order



Recommended Layout



Typical Part Marking



General Specifications

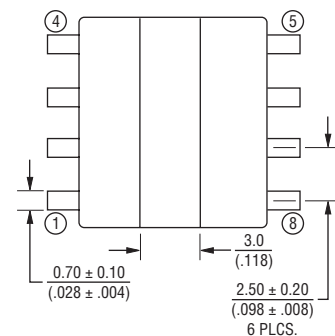
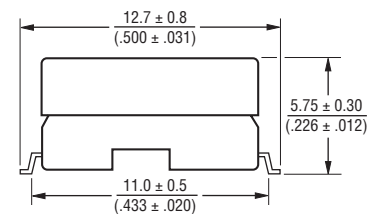
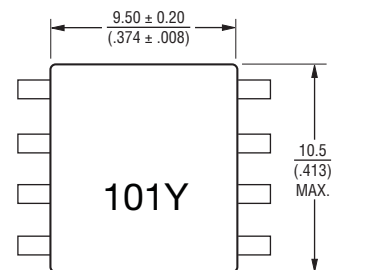
Temperature Rise .. 45 °C at rated current
Hi-Pot 500 Vrms, 60 Hz,
3 mA, 1 minute

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 LCP
Wire Enameled copper
Terminal coating Sn
Packaging 600 pcs. per 13-inch reel

Product Dimensions



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



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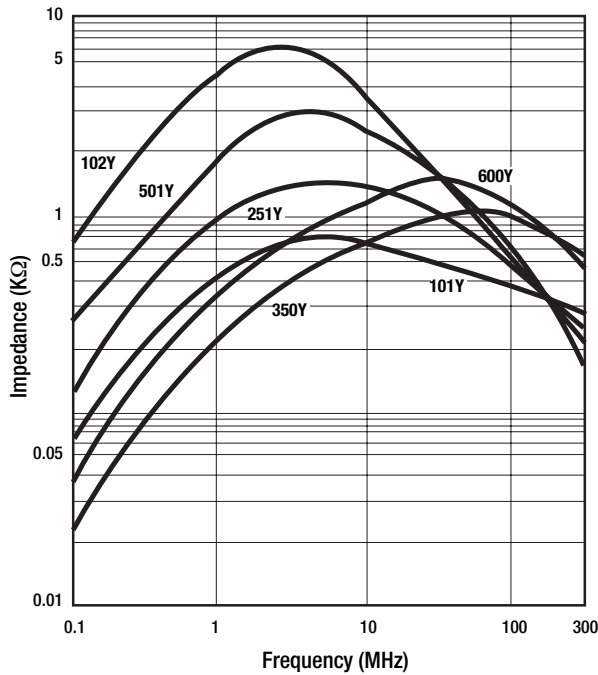
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications

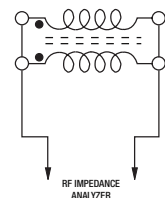
SRF1306 Series - Line Filter

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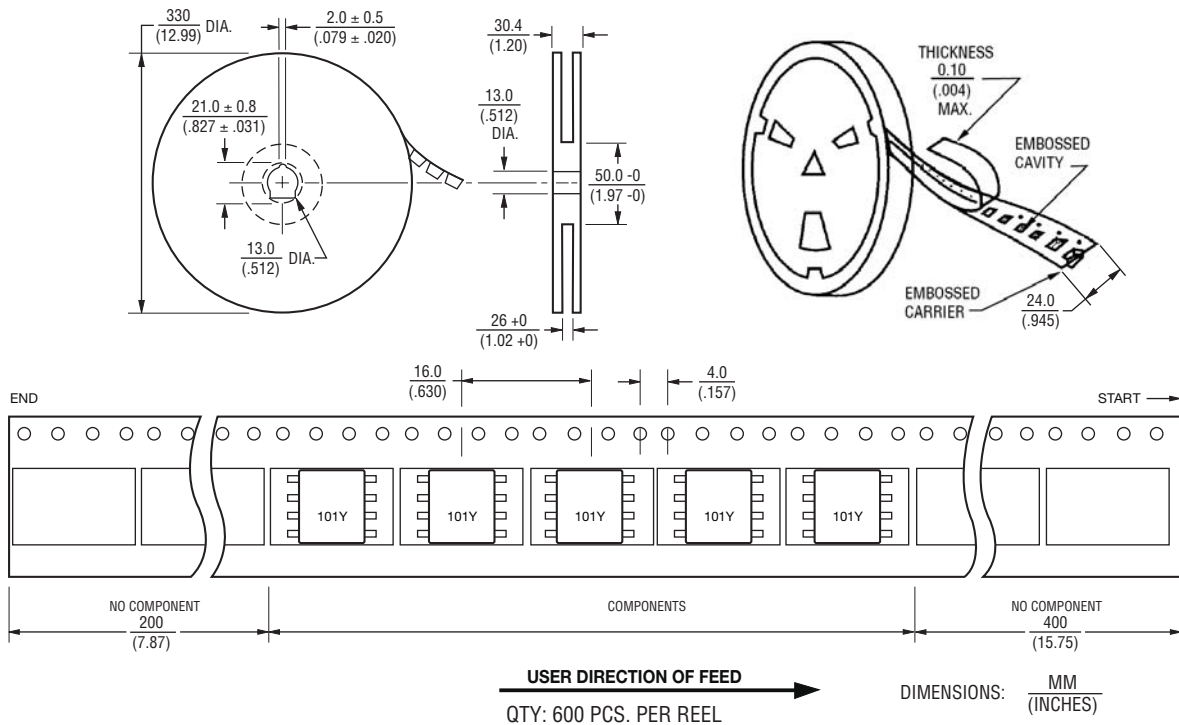
Impedance Graph



MEASURING CIRCUIT



Packaging Specifications



REV. 09/09

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