

#### **Features**

- Current rating up to 2.7 A
- Inductance range: 35 to 1000 µH
- Frequency range to 250 MHz
- RoHS compliant\* and halogen free\*\*

#### **Applications**

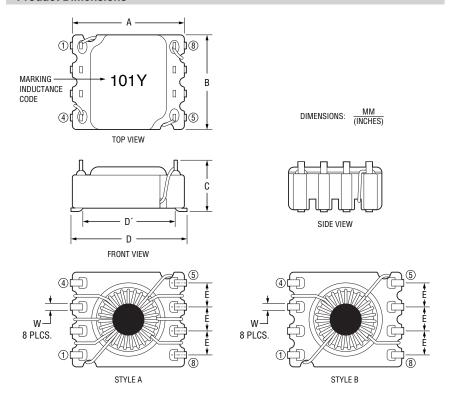
■ EMI suppression

# SRF1360 Series - SMD Line Filter

#### Electrical Specifications @ 25 °C

Part Number	Inductance L1, L2 @ 100 kHz / 0.1 V (μH)	DC Resistance N1, N2 (Ω) Max.	Rated Voltage (V) VDC	Rated Current (A) Max	Hi-Pot Test	Impedance (Ω) Min.	Freq. Range (MHz)	Style
SRF1360-350Y	35 ±35 %	0.035	50	2.7	500 VAC 60 Hz 3 mA 1 min.	400	5 ~ 250	В
SRF1360-600Y	60 ±35 %	0.065		2.0		600	5 ~ 100	
SRF1360-101Y	100 ±35 %	0.100		0.7		300	1 ~ 50	Α
SRF1360-251Y	250 ±35 %	0.150		0.6		600	1 ~ 40	
SRF1360-501Y	500 ±35 %	0.300		0.4		1200	1 ~ 40	
SRF1360-102Y	1000 ±35 %	0.400		0.35		2200	0.5 ~ 10	

#### **Product Dimensions**



Α	В	С	D	D´ Ref.	E	w
$\frac{12.4 \pm 0.3}{(.488 \pm .012)}$	$\frac{10.2 \pm 0.3}{(.402 \pm .012)}$	$\frac{5.4 \pm 0.3}{(.213 \pm .012)}$	$\frac{12.7 \pm 0.5}{(.50 \pm .020)}$	9.8 (.386)	$\frac{2.5 \pm 0.2}{(.098 \pm .008)}$	$\frac{0.7 \pm 0.2}{(.028 \pm .008)}$

- \* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

  \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less;

  (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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

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### **Additional Information**

Click these links for more information:











TECHNICAL INVENTORY SAMPLES CONTACT

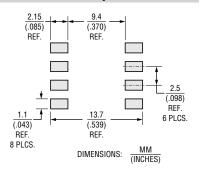
#### **General Specifications**

Operating Temperature
40 °C to +105 °C
Storage Temperature
40 °C to +105 °C
Temperature Rise 45 °C at rated Irm
Moisture Sensitivity Level:
ESD Classification (HBM): N/.

#### **Materials**

Core Material	Ferrite
Wire	Enameled copper
Terminal Finish	Cu/Ag/Sn
Packaging 600	ocs, per 13-inch reel

#### **Recommended Layout**

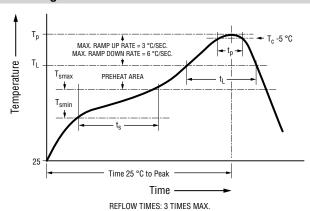




# SRF1360 Series - SMD Line Filter

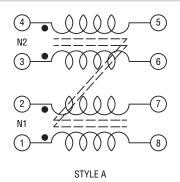
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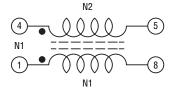
#### **Soldering Profile**



Profile Feature	Pb Free Assembly	
Preheat - Temperature Min. (T <sub>smin</sub> ) - Temperature Max. (T <sub>smax</sub> ) - Time(t <sub>s</sub> ) from T <sub>smin</sub> to T <sub>smax</sub>	150 °C 200 °C 60-120 seconds	
Ramp-up Rate (T <sub>L</sub> to T <sub>p</sub> )	3 °C/second max.	
Liquidous temperature (T <sub>L</sub> ) Time (t <sub>L</sub> ) maintained above T <sub>L</sub>	217 °C 60-150 seconds	
Peak package body temperature (Tp)	245 °C	
Time (t <sub>p</sub> ) at T <sub>c</sub> - 5 °C (T <sub>p</sub> should be equal to or less than T <sub>c</sub> )	< 30 seconds	
Ramp-Down Rate (Tp to TL)	6 °C/second max.	
Time 25 °C to Peak Temperature	8 minutes max.	

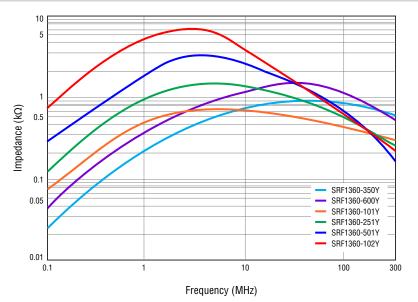
#### **Electrical Schematic**





STYLE B

#### Typical Impedance vs. Frequency Curves



# How to Order SRF1360 - 350 Y Model Value Code (see table) Tolerance Y = ±35 %

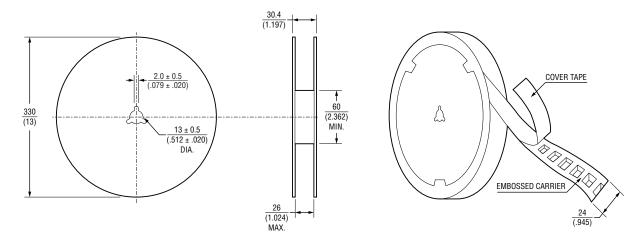
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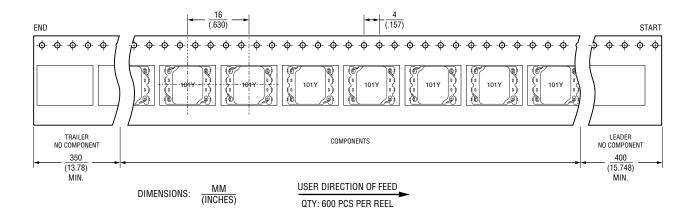
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#### **Packaging Specifications**





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