

## Features

- Shielded construction – low radiation
- High impedance
- High current
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## Applications

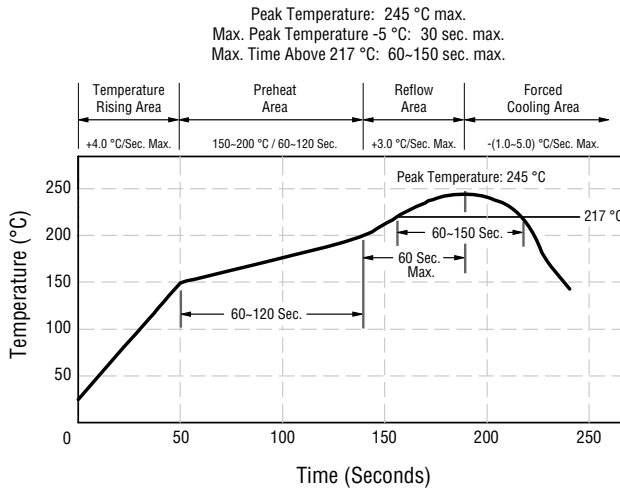
- EMI suppression – power line
- Noise filters – power line

# SRF1206A Series – Common Mode Chokes

### Electrical Specifications at 25 °C

Part Number	Z (Ω) @ 100 MHz		L (μH), N1/N2 Ref. @ 100 kHz / 0.1 V	DCR (mΩ), N1/N2, Max.	IDC (A)
	Min.	Typ.			
SRF1206A-501Y	350	500	6.0	4.5	10.0
SRF1206A-701Y	500	700	9.0	6.0	8.0
SRF1206A-102Y	750	1000	12.5	14.0	6.0
SRF1206A-172Y	1100	1700	17.0	21.0	4.8

### Soldering Profile



### Additional Information

Click these links for more information:



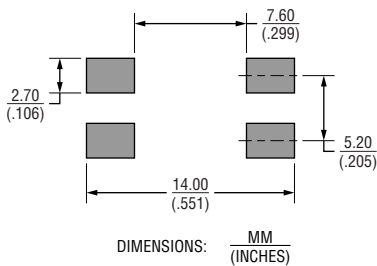
### General Specifications

Rated Voltage ..... 80 VDC  
Hi-Pot..... 500 VAC, 3 mA, 1 Sec.  
Insulation Resistance  
..... 10 MΩ (Min.) @ 100 VDC  
Operating Temperature  
..... -40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature  
..... -40 °C to +125 °C  
Temperature Rise ..... 40 °C max at IDC  
MSL ..... 1  
ESD Classification (HBM)..... N/A

### Materials

Core ..... Ferrite  
Wire ..... Enameled copper  
Terminal Finish ..... Sn  
Packaging ..... 500 pcs. per 13-inch reel

### Recommended Layout



### CALIFORNIA WARNING:

Can expose you to lead, a carcinogen and reproductive toxicant.

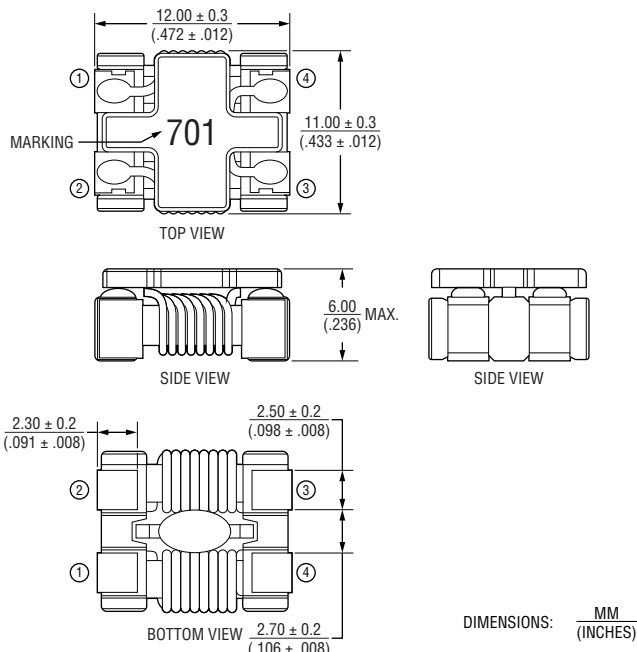
See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



\* 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.

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### Product Dimensions

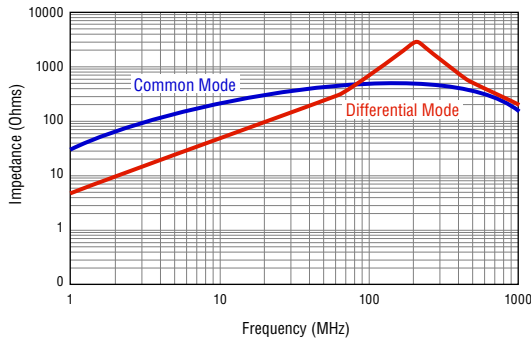


# SRF1206A Series – Common Mode Chokes

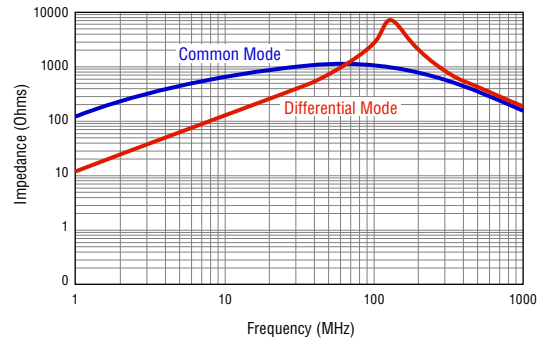


## Typical Impedance vs. Frequency Curves

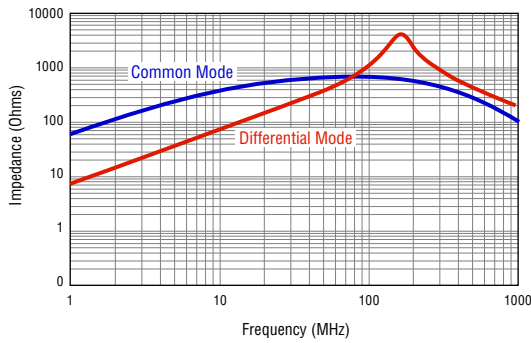
**SRF1206A-501Y**



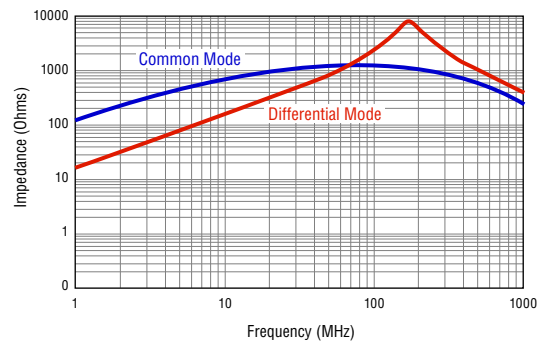
**SRF1206A-102Y**



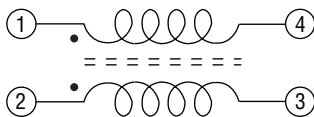
**SRF1206A-701Y**



**SRF1206A-172Y**

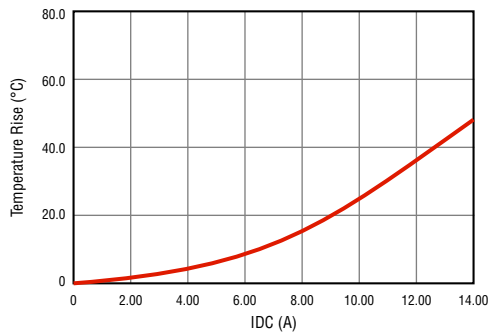


## Electrical Schematic

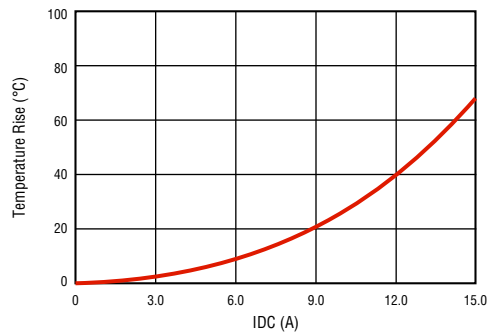


**Temperature Rise Plots**

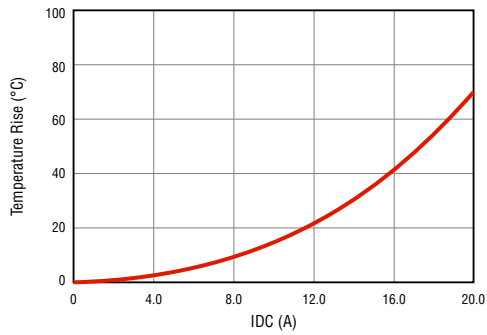
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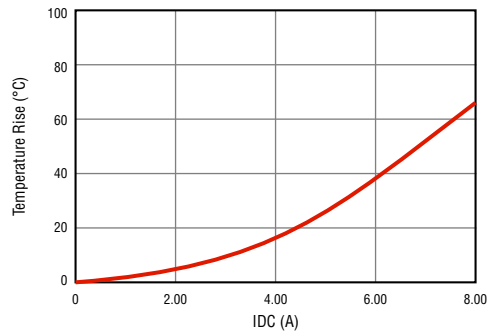
**SRF1206A-102Y**



**SRF1206A-701Y**



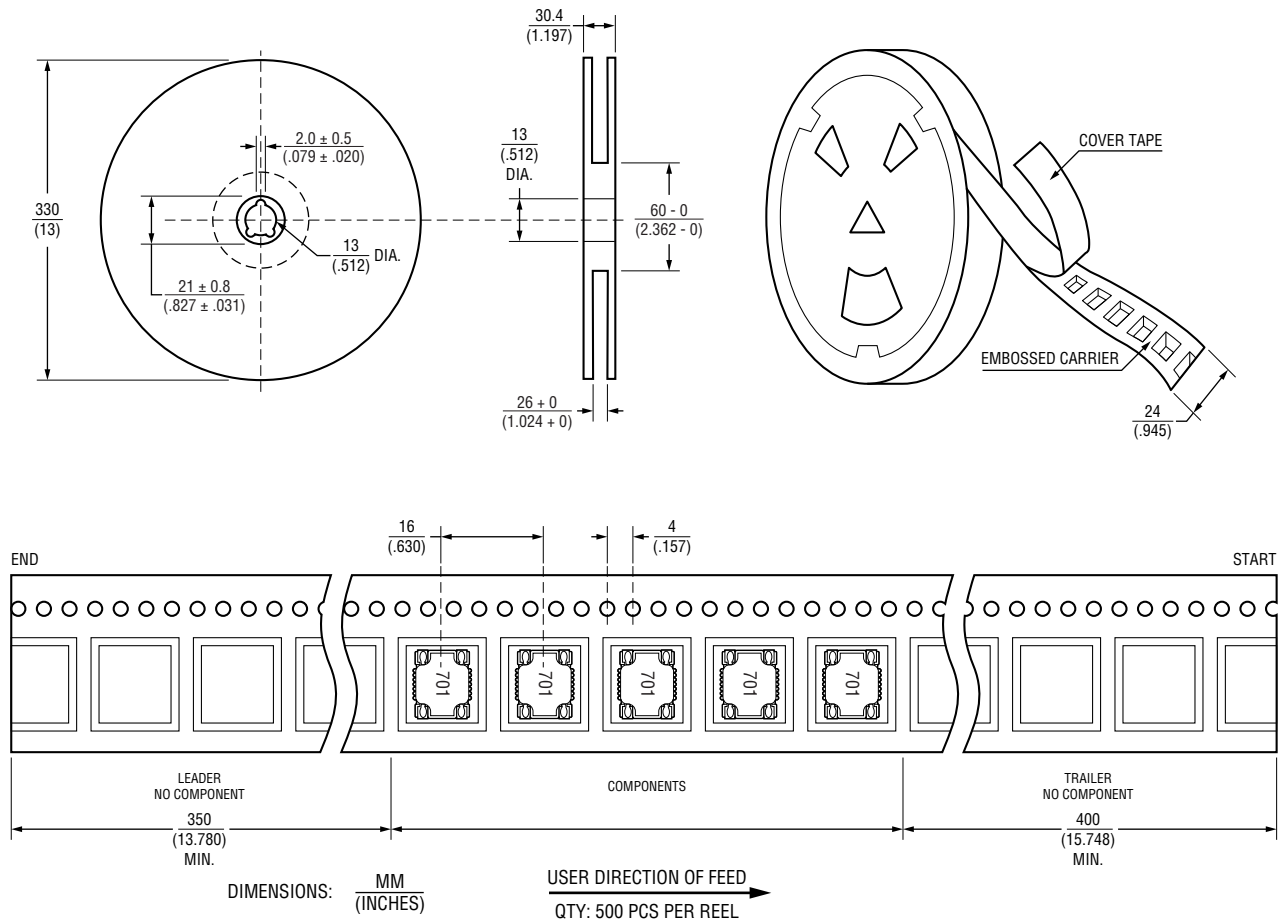
**SRF1206A-172Y**



# SRF1206A Series – Common Mode Chokes

**BOURNS®**

## Packaging Specifications



**BOURNS®**

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REV. 07/25

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