

## Features

- Shielded construction – low radiation
- Bifilar wound
- Impedance range: 67 to 360 ohms @ 100 MHz
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## Applications

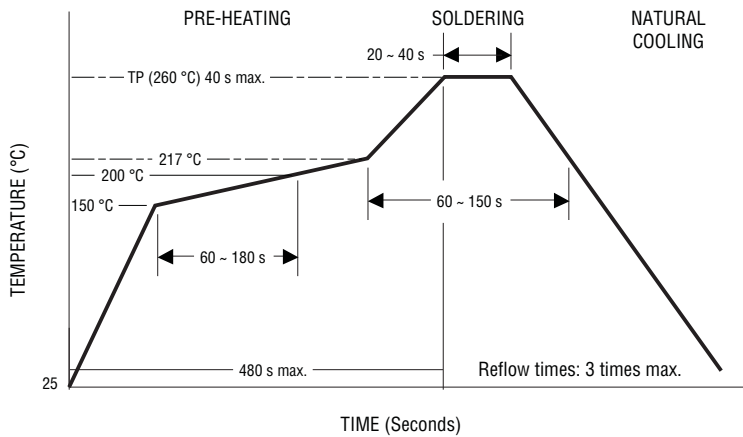
- EMI suppression for:
  - Data and signal lines
  - CANbus
  - Automotive electronics
  - Consumer electronics
  - Telecom devices

# SRF2012AA Series - Common Mode Chip Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Impedance @ 100 MHz / 1 V		DCR Typ. (Ω)	DCR Max. (Ω)	I <sub>rms</sub> (mA)
	Z (Ω)	Tolerance (%)			
SRF2012A-670YA	67	± 25	0.15	0.25	400
SRF2012A-900YA	90	± 25	0.16	0.30	400
SRF2012A-121YA	120	± 25	0.20	0.30	400
SRF2012A-161YA	160	± 25	0.25	0.35	350
SRF2012A-181YA	180	± 25	0.25	0.35	350
SRF2012A-201YA	200	± 25	0.30	0.40	300
SRF2012A-221YA	220	± 25	0.30	0.40	300
SRF2012A-261YA	260	± 25	0.35	0.40	300
SRF2012A-361YA	360	± 25	0.45	0.50	300

### Soldering Profile



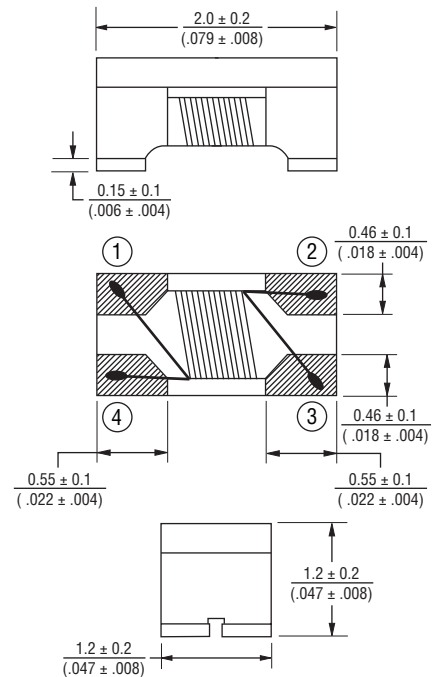
### General Specifications

Rated Voltage ..... 50 VDC  
 Withstanding Voltage ..... 125 VDC  
 Insulation Resistance ..... 10 megohms min. @ 100 VDC  
 Operating Temperature ..... -55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ..... -55 °C to +125 °C  
 Temperature Rise ..... 20 °C at rated I<sub>rms</sub>

### Materials

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn  
 Packaging ..... 2000 pcs. per 7-inch reel

### Product Dimensions

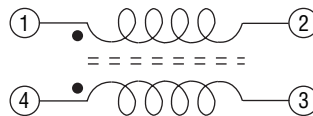


### How to Order

**SRF2012A - 201 Y A**

Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_  
 Tolerance Code \_\_\_\_\_  
 Model Suffix \_\_\_\_\_

### Schematic



# BOURNS®

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[www.bourns.com](http://www.bourns.com)

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

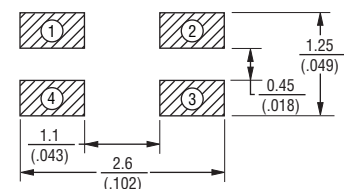
\*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

### Recommended Layout

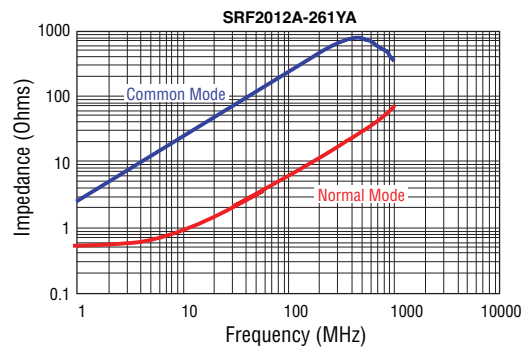
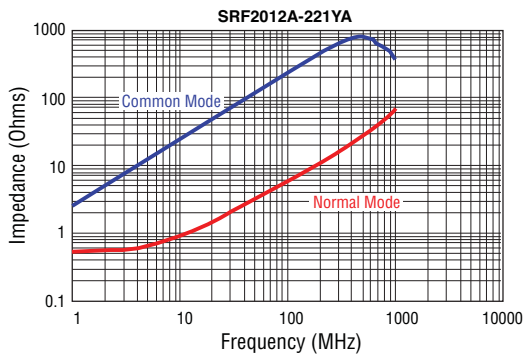
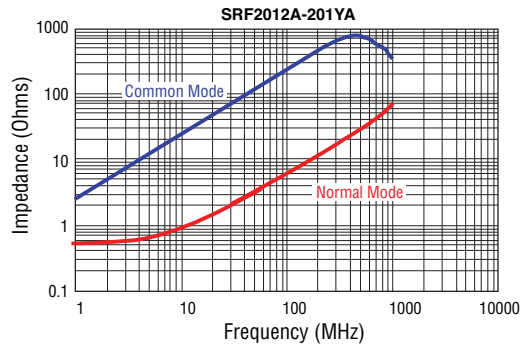
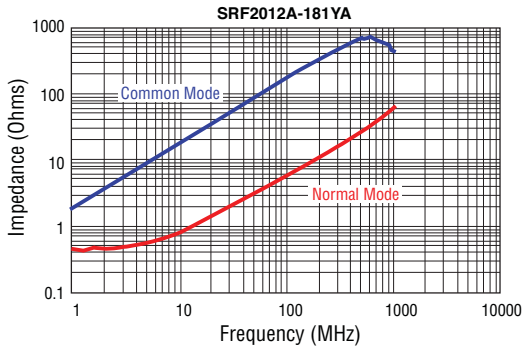
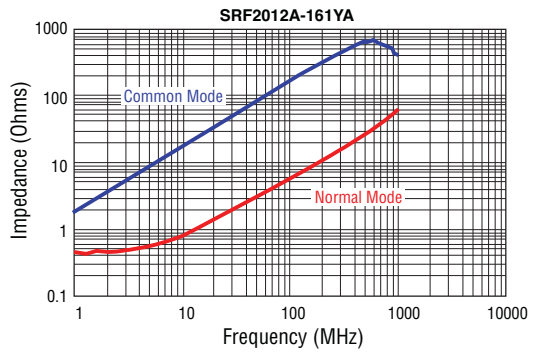
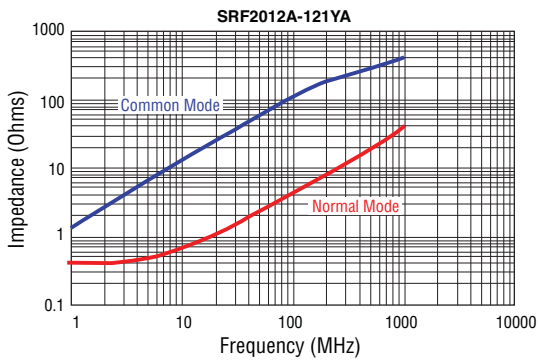
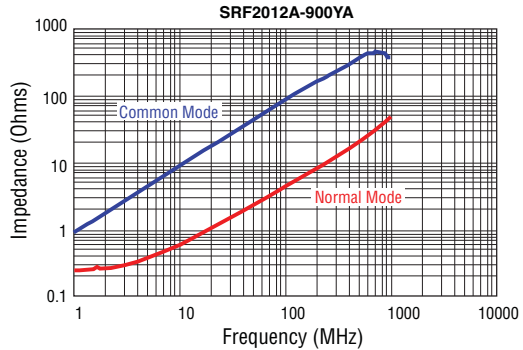
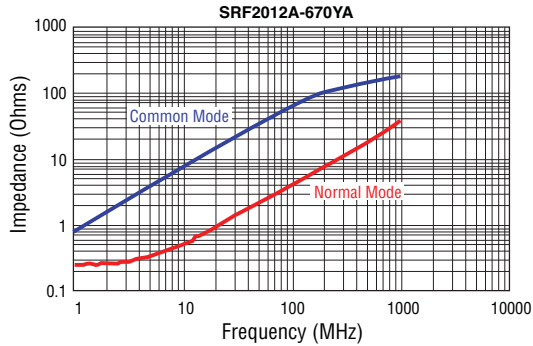


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

# SRF2012AA Series - Common Mode Chip Inductors

**BOURNS®**

## Typical Impedance vs. Frequency Curves

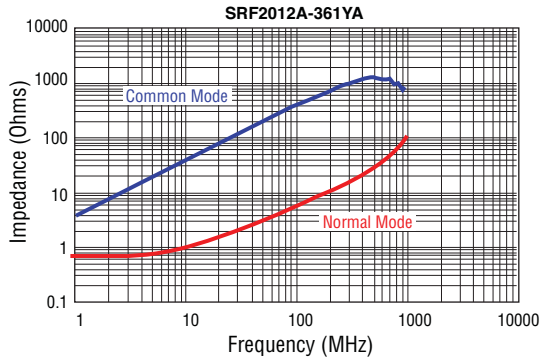


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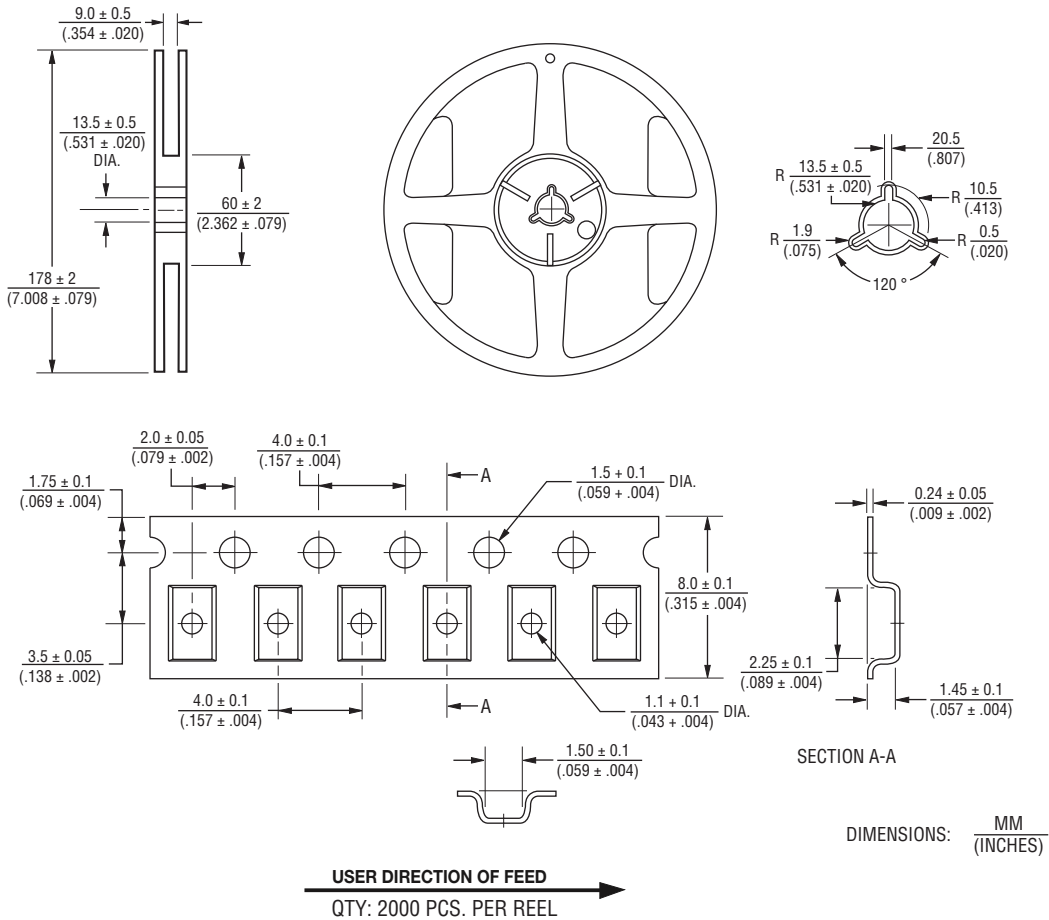
# SRF2012AA Series - Common Mode Chip Inductors

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## Typical Impedance vs. Frequency Curves (Continued)



## Packaging Specifications



REV. 09/16

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