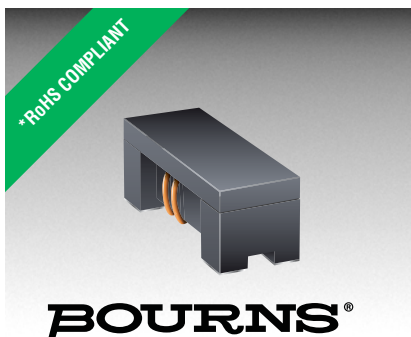




## Features

- High impedance value
- Current rating up to 400 mA
- RoHS compliant\* and halogen free\*\*

## Applications

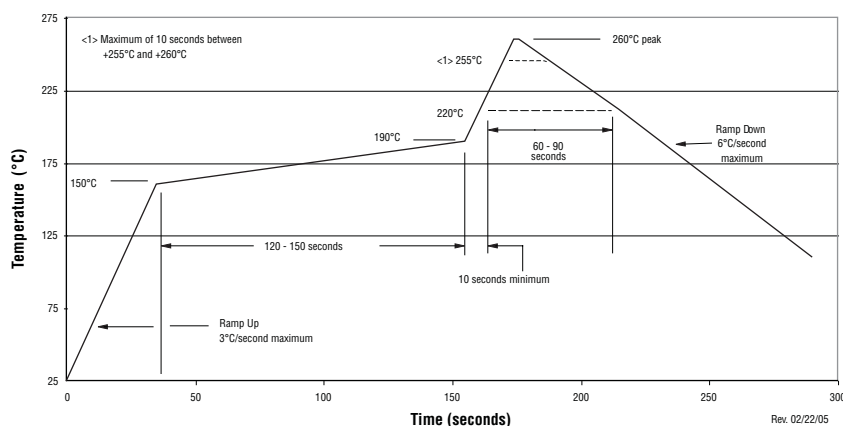
- Noise suppression
- Personal computers
- Display panels

# SRF2012A Series - Common Mode Chip Inductors

## Electrical Specifications

| Part Number   | Impedance<br>@ 100 MHz |                  | Rated<br>Voltage<br>(VDC) | Withstanding<br>Voltage<br>(DC) | Insulation<br>Resistance<br>(M $\Omega$ ) Min. | DCR<br>Max.<br>( $\Omega$ ) | IDC<br>Max.<br>(mA) |
|---------------|------------------------|------------------|---------------------------|---------------------------------|------------------------------------------------|-----------------------------|---------------------|
|               | ( $\Omega$ )           | Tolerance<br>(%) |                           |                                 |                                                |                             |                     |
| SRF2012-670YA | 67                     | $\pm 25$         | 50                        | 125                             | 10                                             | 0.25                        | 400                 |
| SRF2012-900YA | 90                     | $\pm 25$         | 50                        | 125                             | 10                                             | 0.3                         | 400                 |
| SRF2012-121YA | 120                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.3                         | 400                 |
| SRF2012-161YA | 160                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.35                        | 350                 |
| SRF2012-181YA | 180                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.35                        | 350                 |
| SRF2012-201YA | 200                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.4                         | 300                 |
| SRF2012-221YA | 220                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.4                         | 300                 |
| SRF2012-261YA | 260                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.4                         | 300                 |
| SRF2012-361YA | 360                    | $\pm 25$         | 50                        | 125                             | 10                                             | 0.45                        | 300                 |

## Soldering Profile

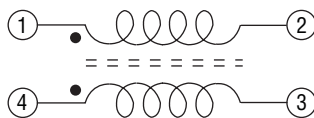


## How to Order

SRF2012 - 201 Y A

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

## Schematic



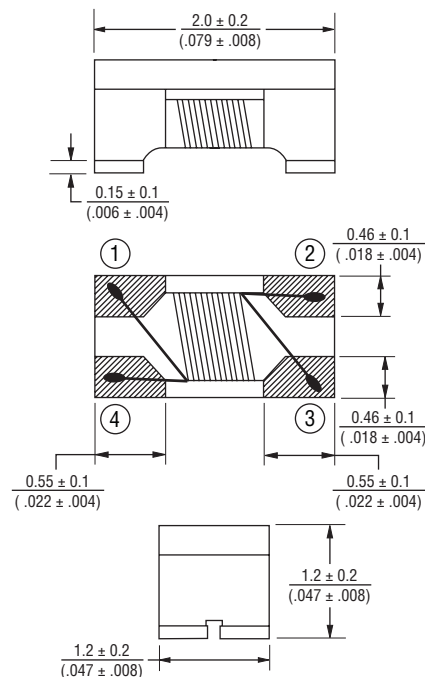
## General Specifications

Reflow soldering..... 230 °C; 50 sec max.  
Operating Temperature  
..... -40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature  
..... -40 °C to +125 °C  
Resistance to Soldering Heat  
..... 260 °C, 10 sec. max.  
Temperature Rise ..... 30 °C max. at IDC

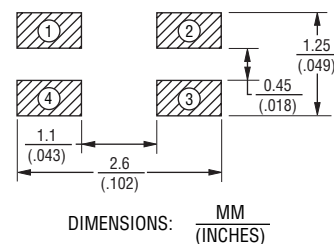
## Materials

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

## Product Dimensions



## Recommended Layout



**BOURNS®**

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

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

\*\* Bourns follows the prevailing definition of "halogen free" in the industry. 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.

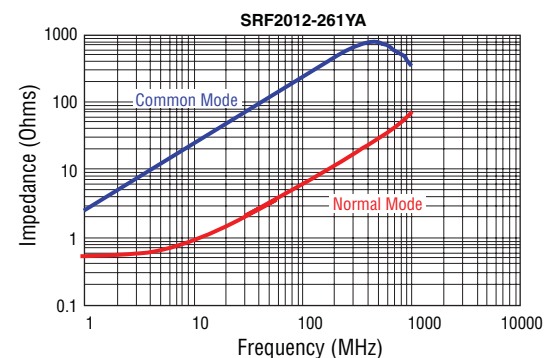
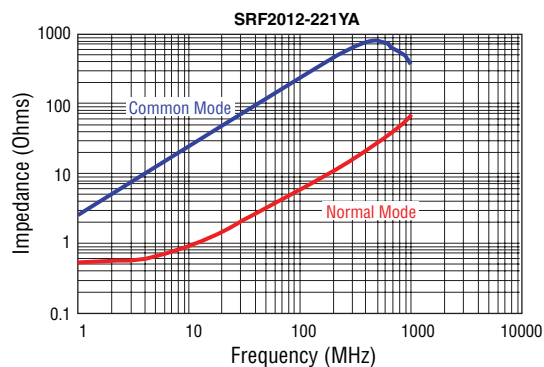
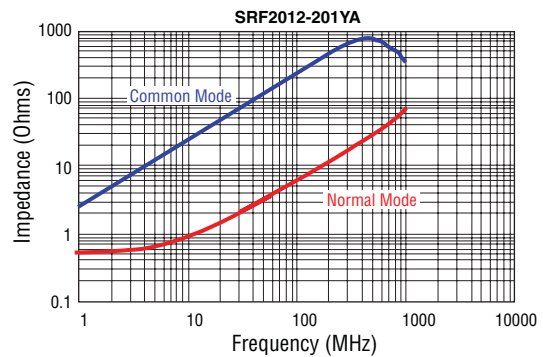
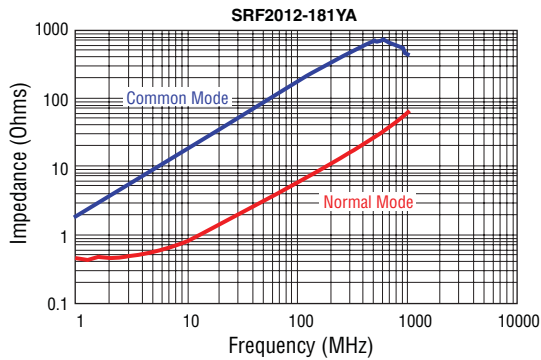
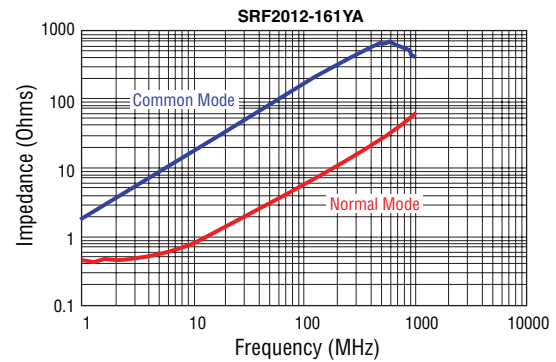
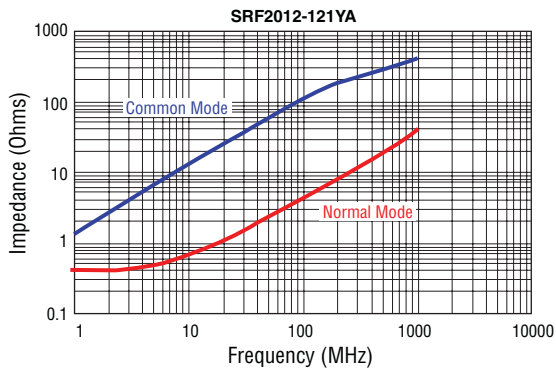
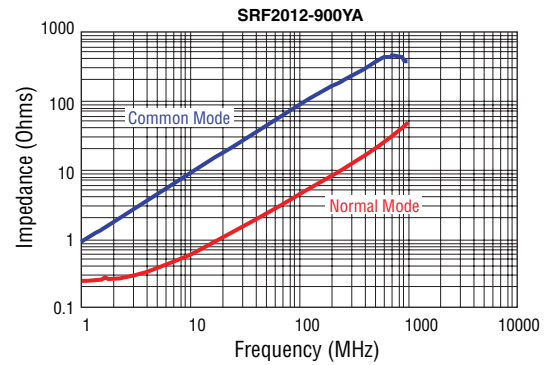
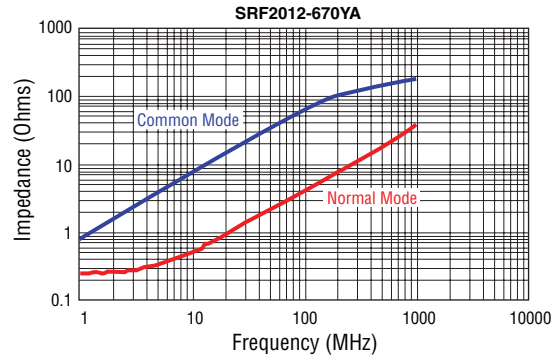
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

# SRF2012A Series - Common Mode Chip Inductors

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## Typical Impedance vs. Frequency Curves

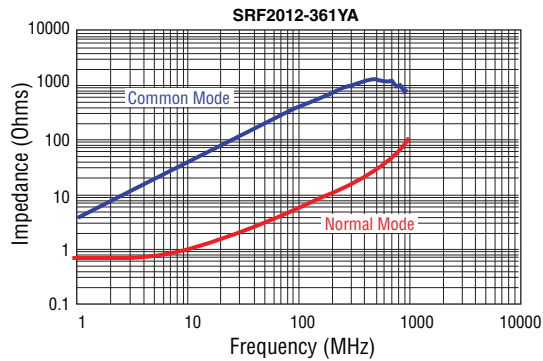


Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications.

# SRF2012A Series - Common Mode Chip Inductors

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## Typical Impedance vs. Frequency Curves (Continued)



## Packaging Specifications

