



## Features

- Shielded construction – low radiation
- Bifilar wound
- Impedance range: 90 to 2200 ohms @ 100 MHz
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## Applications

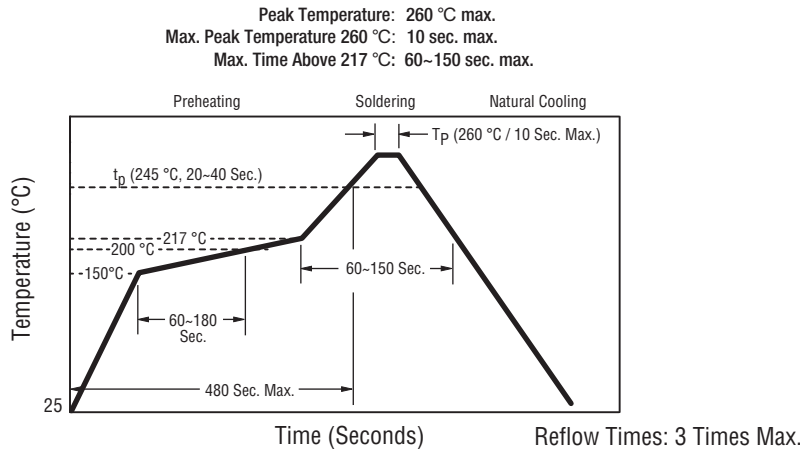
- EMI suppression for:
  - Data and signal lines
  - CANbus
  - Automotive electronics
  - Consumer electronics
  - Telecom devices

# SRF3216A 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 (%)			
SRF3216A-900Y	90	± 25	0.15	0.3	400
SRF3216A-121Y	120	± 25	0.17	0.3	350
SRF3216A-161Y	160	± 25	0.18	0.4	350
SRF3216A-221Y	220	± 25	0.25	0.45	300
SRF3216A-261Y	260	± 25	0.35	0.5	300
SRF3216A-361Y	360	± 25	0.45	0.6	300
SRF3216A-601Y	600	± 25	0.60	0.8	300
SRF3216A-102Y	1000	± 25	0.65	1.0	230
SRF3216A-222Y	2200	± 25	1.10	1.2	200

## Soldering Profile



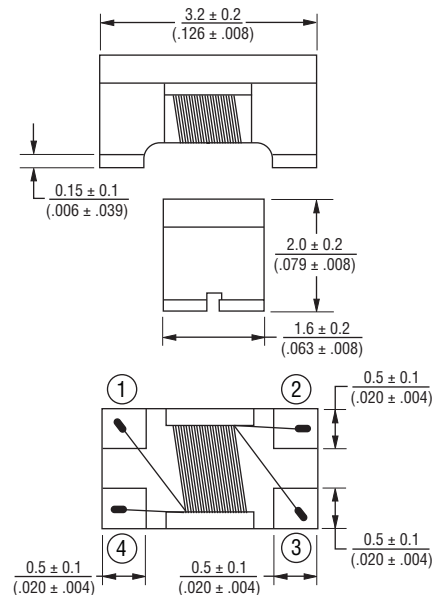
## General Specifications

Rated Voltage ..... 50 VDC  
 Withstanding Voltage ..... 125 VDC  
 Insulation Resistance ..... 10 megohms min. @ 100 VDC  
 Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ..... -40 °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

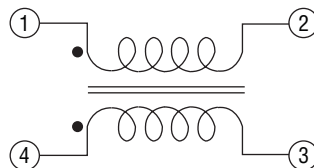


## How to Order

SRF3216A - 221 Y

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

## Schematic



# BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

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

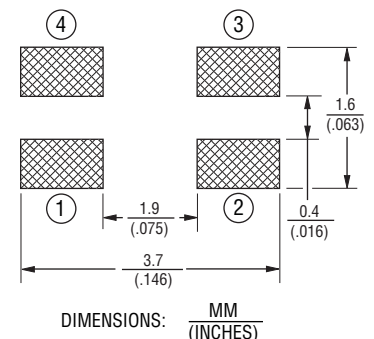
\*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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.

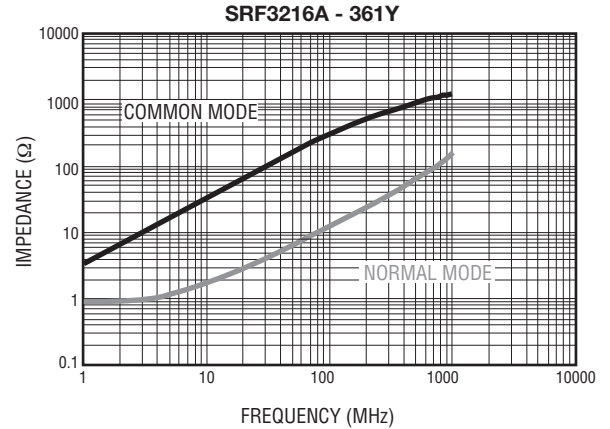
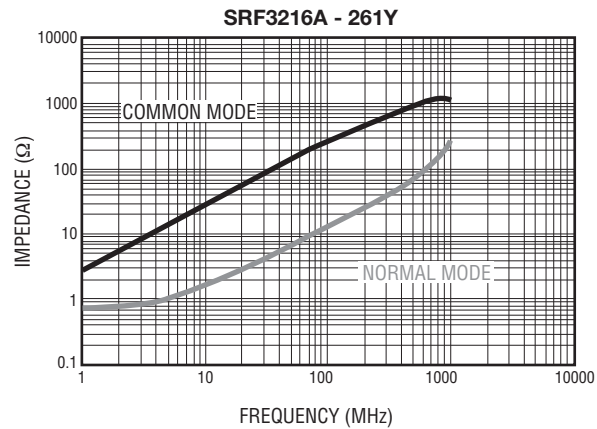
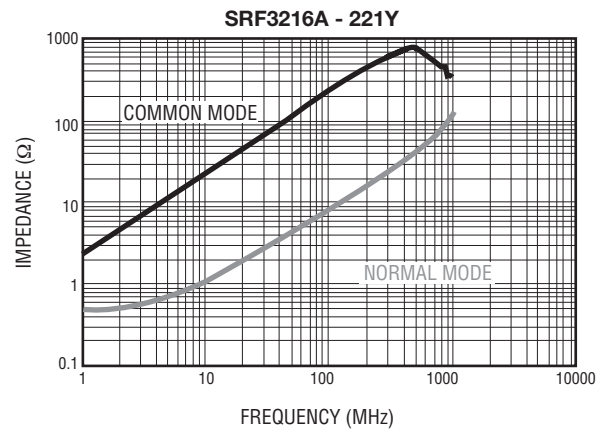
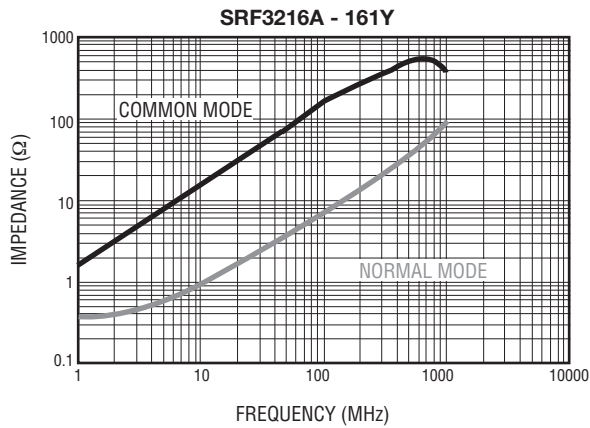
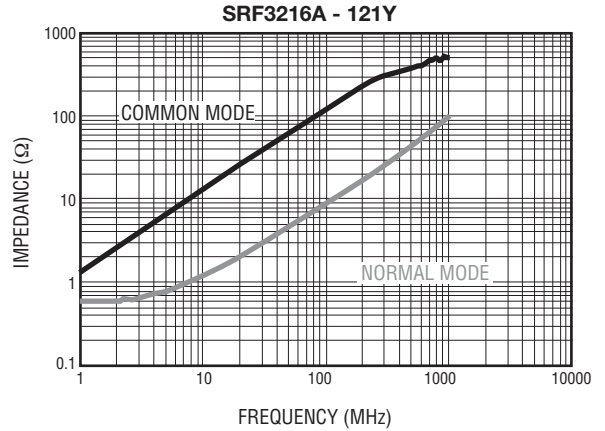
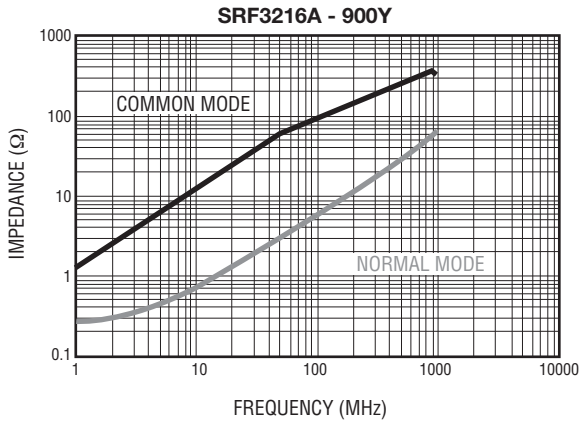
## Recommended Layout



# SRF3216A Series - Common Mode Chip Inductors

**BOURNS®**

## Typical Impedance vs. Frequency Curves

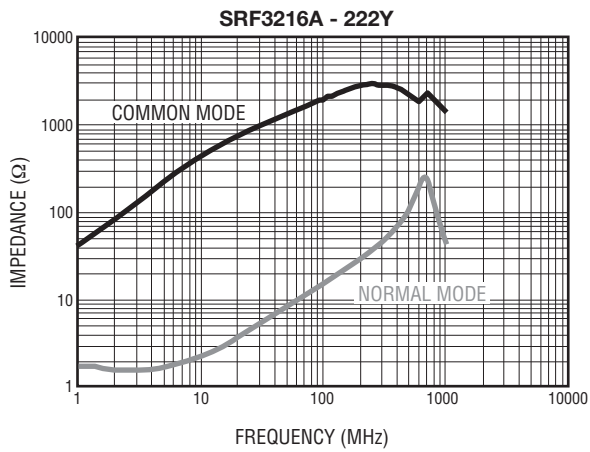
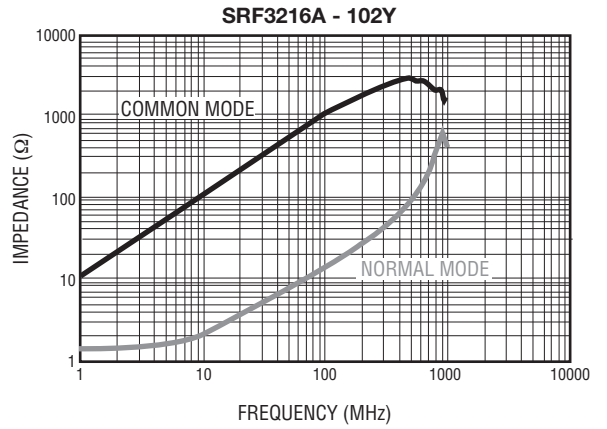
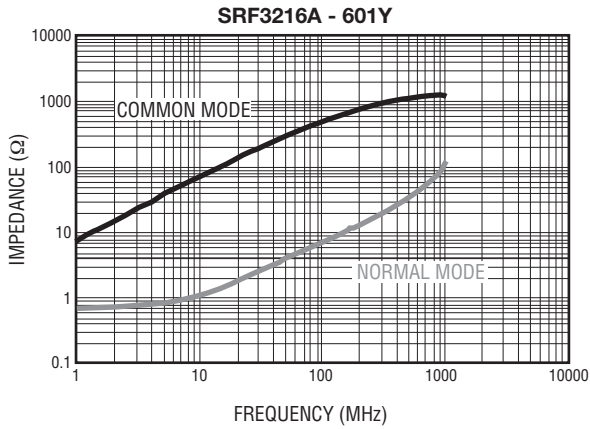


Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# SRF3216A Series - Common Mode Chip Inductors

**BOURNS®**

## Typical Impedance vs. Frequency Curves (Continued)



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.

# SRF3216A Series - Common Mode Chip Inductors

**BOURNS®**

## Packaging Specifications

