

Features

- Shielded construction – low radiation
- Bifilar wound
- Impedance range: 30 to 900 ohms @ 100 MHz
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Additional Information

Click these links for more information:



[PRODUCT](#)

[TECHNICAL
LIBRARY](#)

[INVENTORY](#)

[SAMPLES](#)

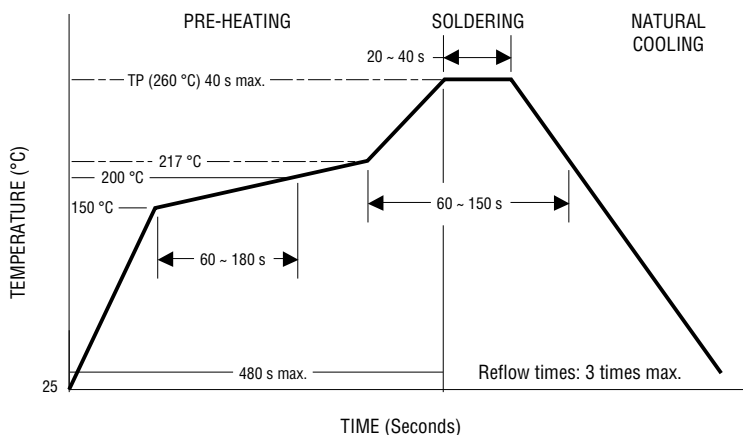
[CONTACT](#)

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 _{rms} (mA)
	Z (Ω)	Tolerance (%)			
SRF2012A-300YA	30	± 25	0.15	0.20	400
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-301YA	300	± 25	0.40	0.50	300
SRF2012A-361YA	360	± 25	0.40	0.45	300
SRF2012A-371YA	370	± 25	0.40	0.45	300
SRF2012A-501YA	500	± 25	0.40	0.50	300
SRF2012A-671YA	670	± 25	0.45	0.60	140
SRF2012A-901YA	900	± 25	0.70	0.88	100

Soldering Profile

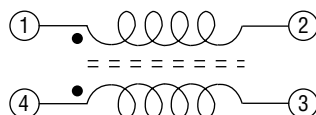


How to Order

SRF2012A - 201 Y A

Model _____
Value Code (see table) _____
Tolerance Code _____
Model Suffix _____

Schematic



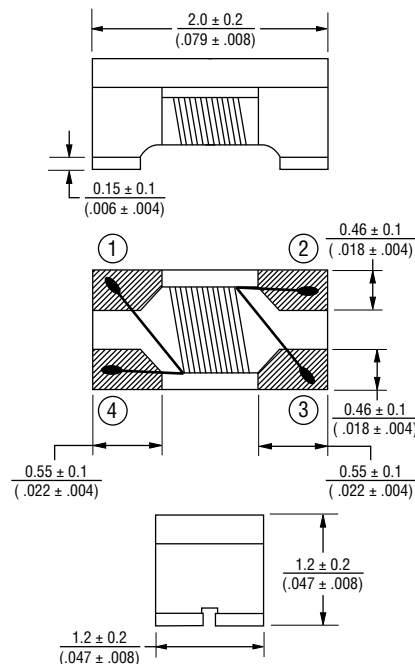
General Specifications

Rated Voltage..... 100 VDC
Withstanding Voltage..... 250 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 Rise20 °C at rated I_{rms}

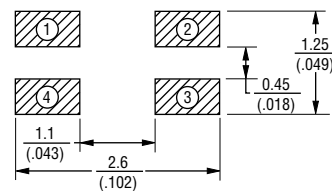
Materials

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

Product Dimensions



Recommended Layout



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



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

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

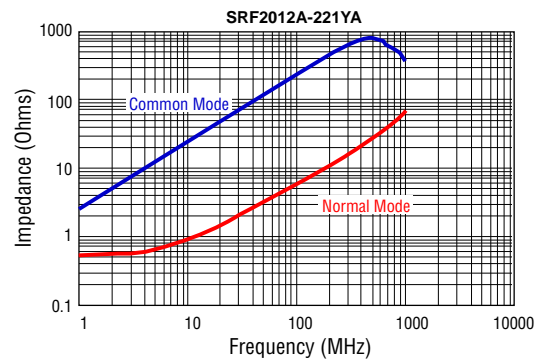
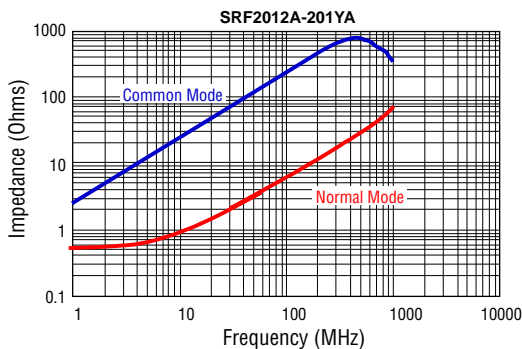
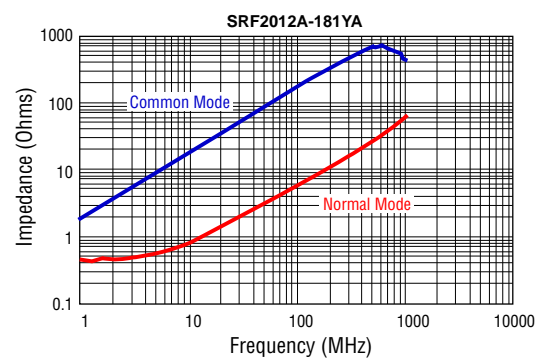
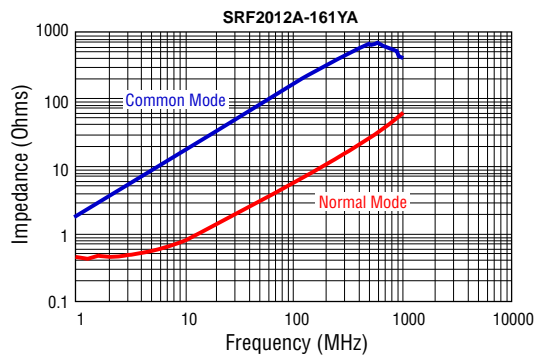
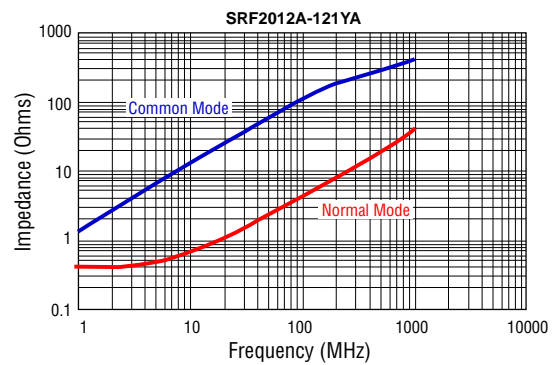
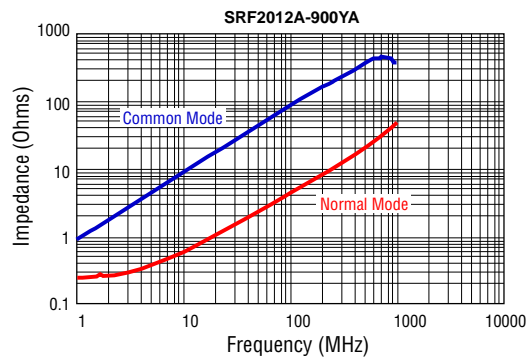
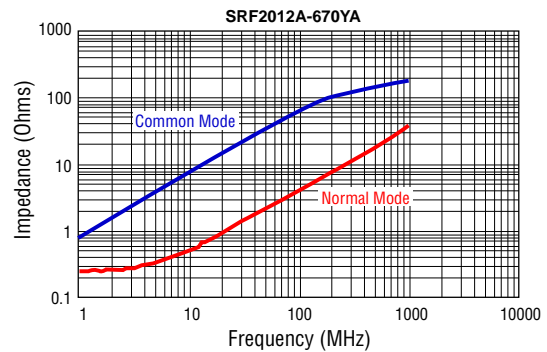
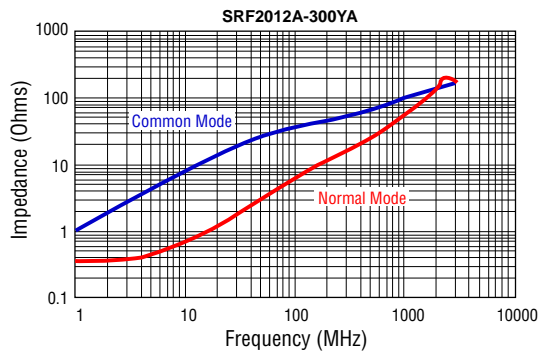
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRF2012AA Series - Common Mode Chip Inductors

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Typical Impedance vs. Frequency Curves



Specifications are subject to change without notice.

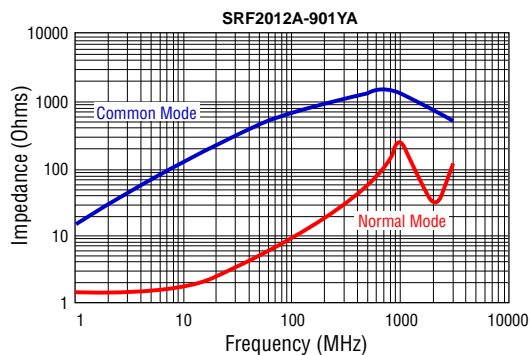
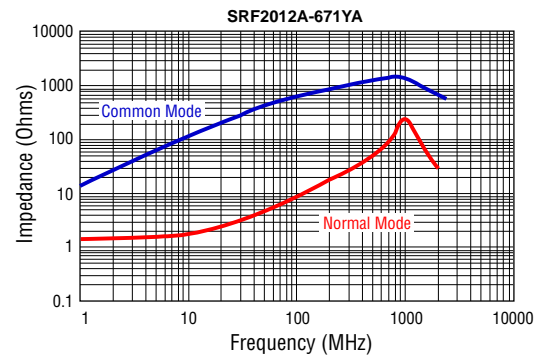
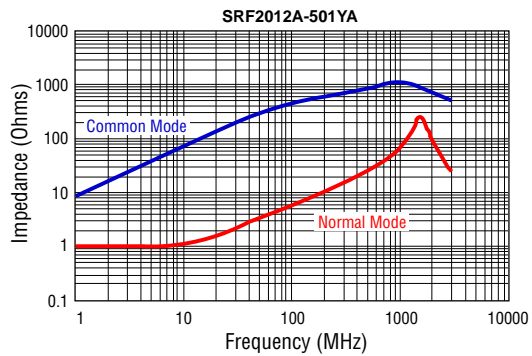
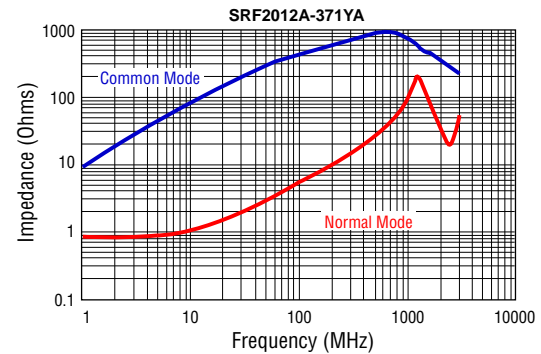
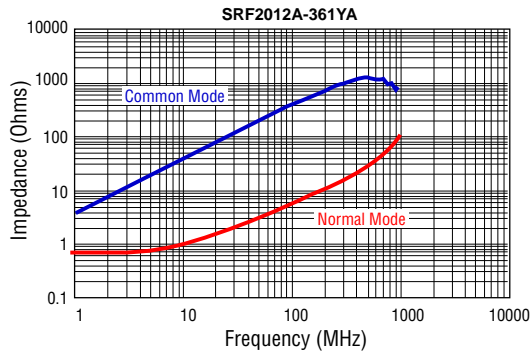
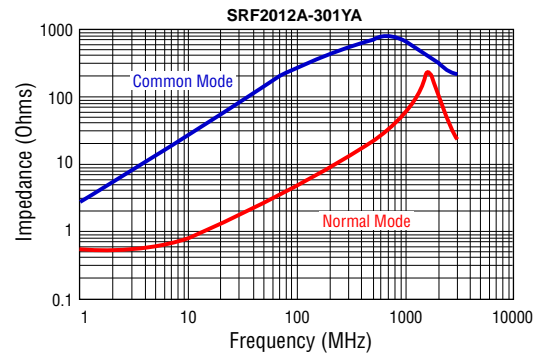
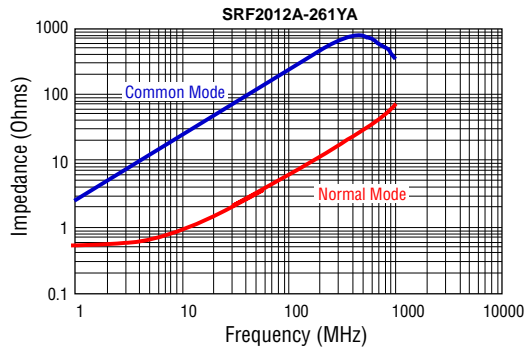
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SRF2012AA Series - Common Mode Chip Inductors

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Typical Impedance vs. Frequency Curves (Continued)



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Technical drawing of a 12.5mm diameter, 12-spoke wheel. The drawing includes a side view, a top view, and a cross-section view labeled SECTION A-A.

Side View Dimensions:

- Overall Width: 9.0 ± 0.5 (354 ± .020)
- Spoke Width: 13.5 ± 0.5 (.531 ± .020) DIA.
- Spoke Thickness: 60 ± 2 (2.362 ± .079)
- Overall Height: 178 ± 2 (7.008 ± .079)

Top View Dimensions:

- Spoke Width: 2.0 ± 0.05 (.079 ± .002)
- Spoke Spacing: 4.0 ± 0.1 (.157 ± .004)
- Spoke Thickness: 1.5 ± 0.1 (.059 ± .004) DIA.
- Spoke Width: 1.75 ± 0.1 (.069 ± .004)
- Spoke Thickness: 3.5 ± 0.05 (.138 ± .002)
- Spoke Spacing: 4.0 ± 0.1 (.157 ± .004)
- Spoke Thickness: 1.00 (.039) DIA.
- Spoke Width: 8.0 ± 0.1 (.315 ± .004)
- Spoke Thickness: 2.35 ± 0.1 (.093 ± .004)
- Spoke Width: 0.24 ± 0.05 (.009 ± .002)
- Spoke Thickness: 1.45 ± 0.1 (.057 ± .004)

Cross-Section View (SECTION A-A) Dimensions:

- Spoke Width: 20.5 (.807)
- Spoke Thickness: 13.5 ± 0.5 (.531 ± .020)
- Spoke Spacing: 10.5 (.413)
- Spoke Thickness: 1.9 (.075)
- Spoke Spacing: 0.5 (.020)
- Spoke Thickness: 120°

SECTION A-A

DIMENSIONS: MM (INCHES)

USER DIRECTION OF FEED

QTY: 2000 PCS. PER REEL

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

USER DIRECTION OF FEED
QTY: 2000 PCS. PER REEL

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