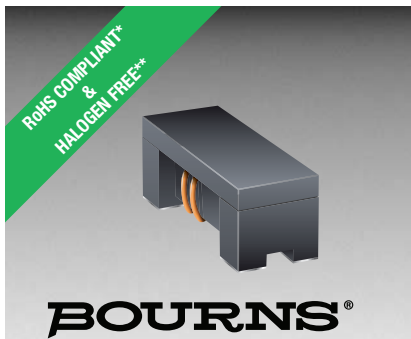




Features

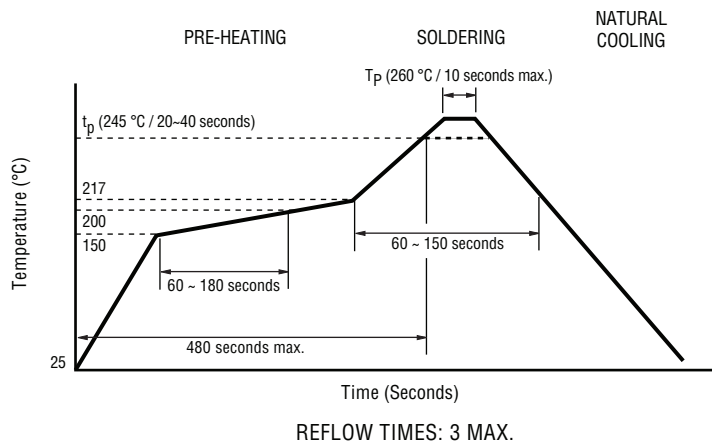
- Shielded construction – low radiation
- Bifilar wound
- Use with Chip LAN transformers SM453229-231N7Y and SM453229-381N7Y
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRF2012A-801Y – Common Mode Chip Inductor

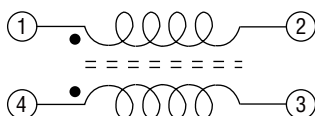
Electrical Specifications at 25 °C

Part Number	Impedance @ 100 MHz / 1 V		Rated Voltage (VDC) Max.	Withstand Voltage (VDC) Max.	Insulation Resistance (Ω) Min.	DCR Max. (Ω)	I _{rms} (mA)
	(Ω)	Tolerance (%)					
SRF2012A-801Y	800	± 25	50	125	10 M	0.88	300

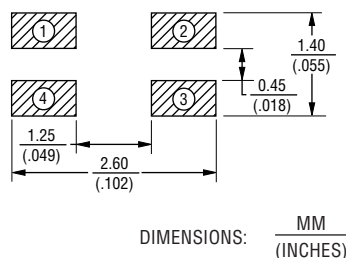
Soldering Profile



Schematic



Recommended Layout



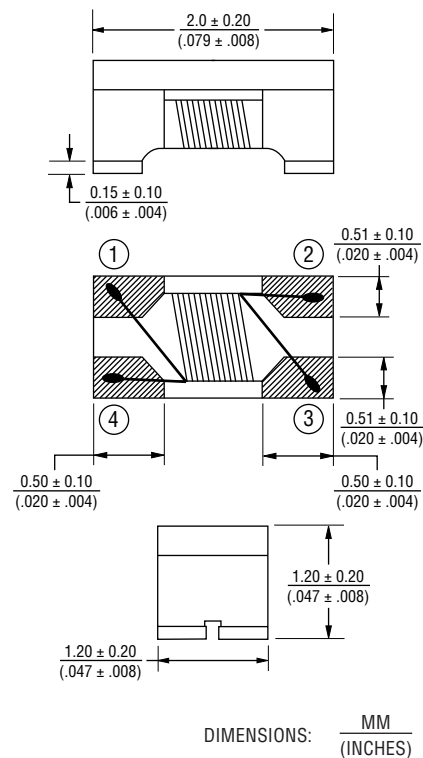
General Specifications

Rated Voltage 50 VDC
 Withstanding Voltage 125 VDC
 Insulation Resistance
 10 MΩ (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_{rms}

Materials

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

Product Dimensions



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

* 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.

Users should verify actual device performance in their specific applications.

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A log-log plot showing the impedance of a common mode choke in Ohms versus frequency in MHz. The x-axis ranges from 1 to 10,000 MHz, and the y-axis ranges from 0.1 to 10,000 Ohms. Two curves are shown: a blue curve for 'Common Mode' and a red curve for 'Normal Mode'. The common mode impedance increases steadily with frequency, while the normal mode impedance remains low until about 500 MHz, where it peaks and then drops.

Frequency (MHz)	Common Mode Impedance (Ohms)	Normal Mode Impedance (Ohms)
1	10	1
10	100	1.2
100	600	8
1000	1200	200
2000	600	30

Technical drawing of a wheel and hub assembly. The drawing includes a side view of the wheel, a top view of the wheel, a side view of the hub, and a cross-section A-A of the hub.

Wheel Dimensions:

- Overall width: 9.0 ± 0.5 ($.354 \pm .020$)
- Hub diameter: 13.5 ± 0.5 ($.531 \pm .020$) DIA.
- Hub thickness: 60 ± 2.0 ($2.362 \pm .079$)
- Overall height: 178 ± 2.0 ($7.008 \pm .079$)

Hub Dimensions:

- Hub diameter: 13.5 ± 0.5 ($.531 \pm .020$) DIA.
- Hub thickness: 2.0 ($.079$)
- Hub width: 10.5 ($.413$)
- Hub radius: $R 1.9$ ($.075$)
- Hub angle: 120°

Section A-A Dimensions:

- Hub diameter: 1.50 ± 0.10 ($.059 \pm .004$) DIA.
- Hub thickness: 2.00 ± 0.05 ($.079 \pm .002$)
- Hub width: 4.00 ± 0.1 ($.157 \pm .004$)
- Hub radius: $R 1.75 \pm 0.10$ ($.069 \pm .004$)
- Hub height: 8.00 ± 0.10 ($.315 \pm .004$)
- Hub width: 4.00 ± 0.10 ($.157 \pm .004$)
- Hub radius: $R 1.50 \pm 0.10$ ($.059 \pm .004$)
- Hub thickness: 0.28 ± 0.05 ($.011 \pm .002$)
- Hub width: 2.35 ± 0.10 ($.093 \pm .004$)
- Hub height: 1.45 ± 0.10 ($.057 \pm .004$)

DIMENSIONS: MM (INCHES)

QTY: 2000 PCS. PER REEL

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