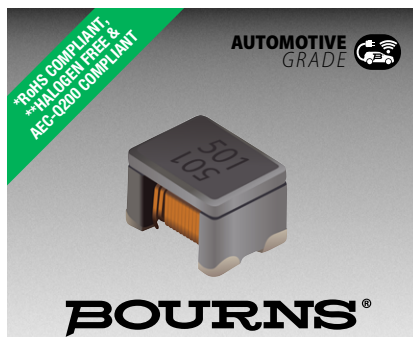




Features

- Shielded construction – low radiation
- High current
- Compact size
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

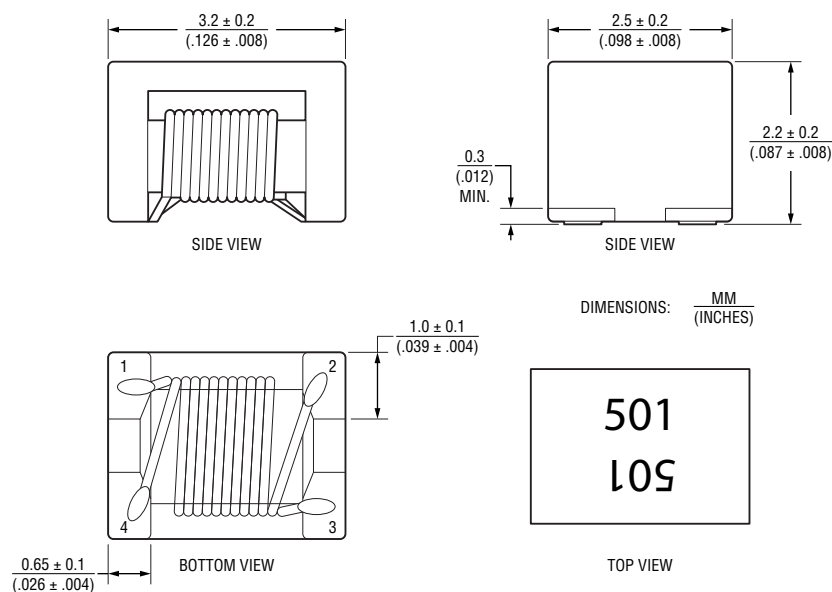
- Noise filters
- DC power lines
- Automotive systems

SRF3225TAP Series – Common Mode Chip Inductors

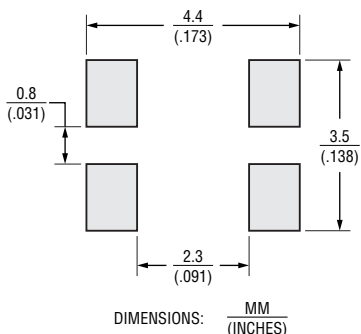
Electrical Specifications @ 25 °C

Bourns Part Number	Common Mode Impedance (Ω) @ 100 MHz	DCR (Ω) Max.	Rated Current (mA) Max.	Rated Voltage (VDC) Max.	IR (MΩ) Min.
SRF3225TAP-501Y	500 ±25 %	0.10	2000	80	10
SRF3225TAP-102Y	1000 ±25 %	0.10	1500	80	10

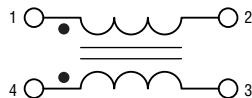
Product Dimensions



Recommended Layout



Electrical Schematic



Additional Information

Click these links for more information:



General Specifications

Operating Temperature -55 °C to +150 °C
(Temperature rise included)
Storage Temperature -55 °C to +150 °C
Temperature Rise 40 °C at rated I_{rms}¹
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A
¹Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

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

How to Order

SRF3225TAP - 501 Y

Model _____
Value Code (see table) _____
Tolerance _____



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

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

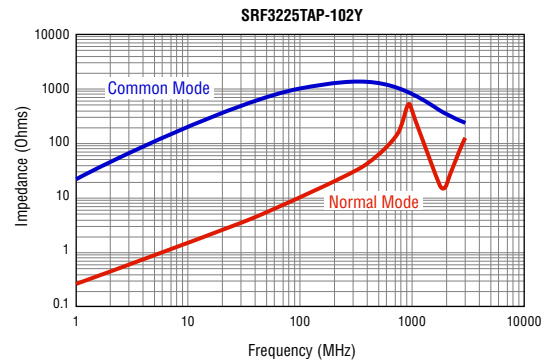
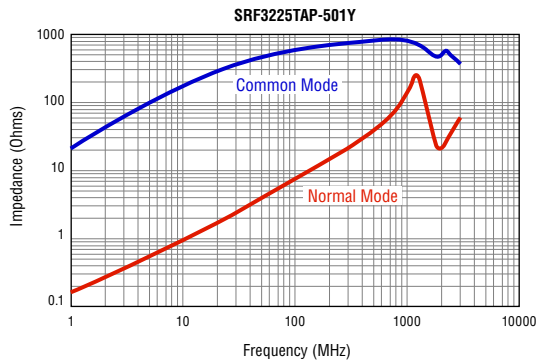
**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

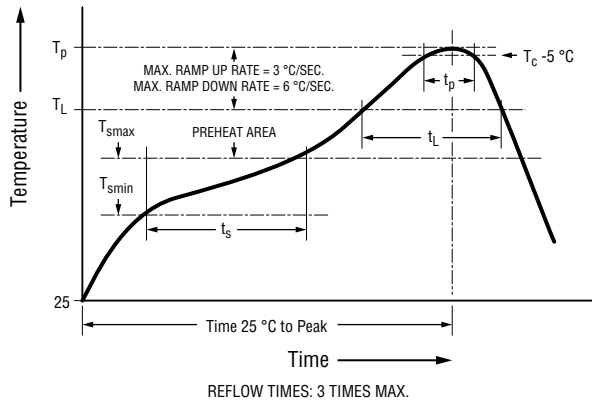
SRF3225TAP Series – Common Mode Chip Inductors

BOURNS®

Typical Impedance vs. Frequency Curves



Soldering Profile



Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Peak package body temperature (T_p)	260 °C
Time (t_p) at $T_c - 5$ °C (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

NOTE:

The part has been tested under this reflow condition. Deviations from this, especially with higher temperatures or longer durations, could impact performance.

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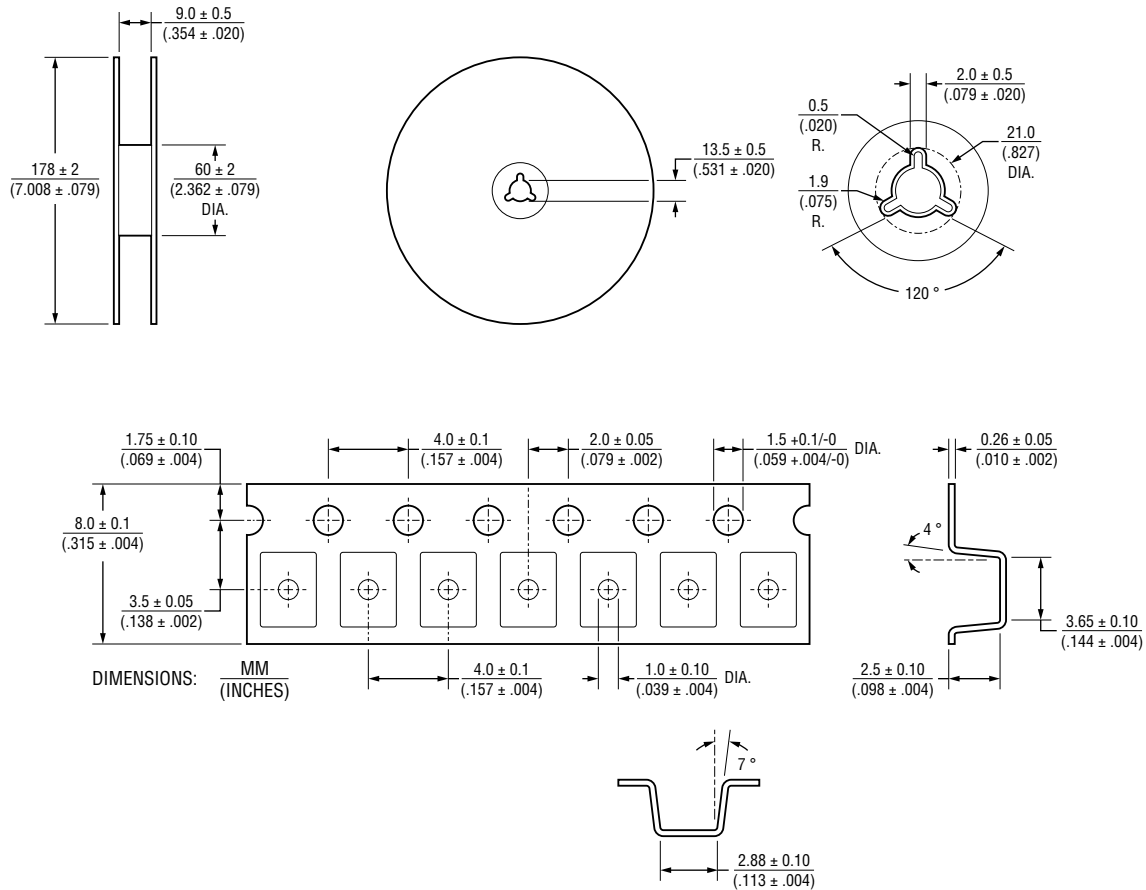
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SRF3225TAP Series – Common Mode Chip Inductors

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED

QTY: 2,000 PCS. PER REEL

BOURNS®

Americas: Tel: +1 951-781-5500 • Email: americus@bourns.com

Mexico: Tel: +52-614-478-0400 • Email: mexicus@bourns.com

Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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