



## Features

- Shielded construction for low radiation
- High current
- Compact size
- RoHS compliant\* and halogen free\*\*

## Applications

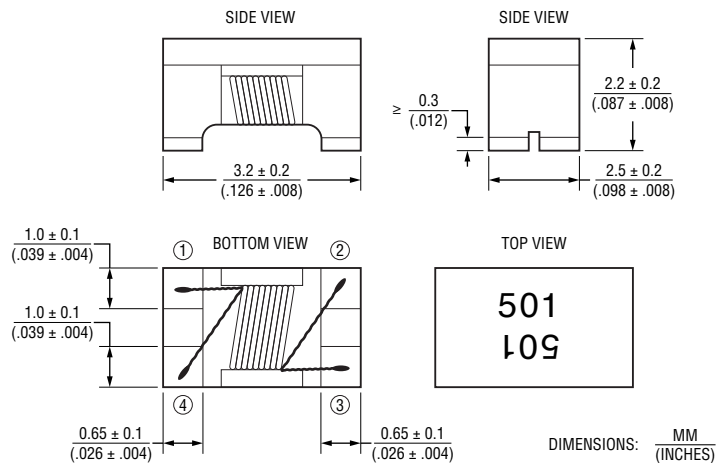
- DC power lines - EMI suppression
- DC power lines - noise filters

## SRF3225TP Series – Common Mode Chokes

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 0.1 V		Common Mode Impedance (Ω) @ 100 MHz	DCR (Ω) Max.	Rated Current (mA) Max.	Rated Voltage (VDC) Max.	IR (MΩ) Min.
	L (μH)	Tol. (%)					
SRF3225TP-501Y	2.2	+50/-30	500 ± 25 %	0.1	2000	60	10
SRF3225TP-102Y	8.2	+50/-30	1000 ± 25 %		1500		

### Product Dimensions



### Additional Information

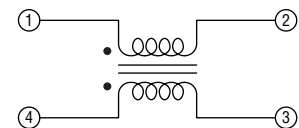
Click these links for more information:



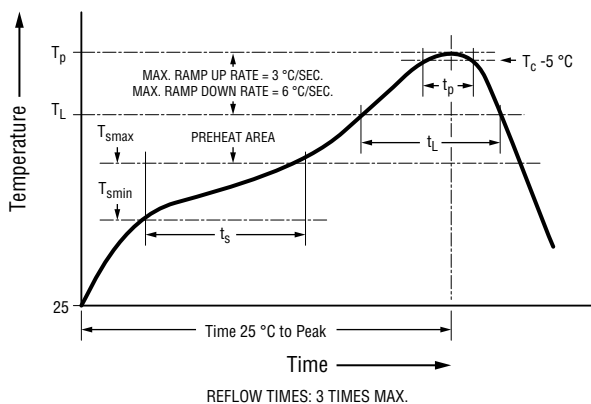
### General Specifications

Operating Temperature ..... -40 °C to +105 °C  
 Storage Temperature ..... -40 °C to +105 °C  
 Rated Current.....Based on max. temperature rise of 40 °C  
 Moisture Sensitivity Level.....1  
 ESD Classification (HBM).....N/A

### Electrical Schematic



### Soldering Profile



Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> <li>- Temperature Min. (<math>T_{smin}</math>)</li> <li>- Temperature Max. (<math>T_{smax}</math>)</li> <li>- Time(<math>t_s</math>) from <math>T_{smin}</math> to <math>T_{smax}</math></li> </ul>	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.



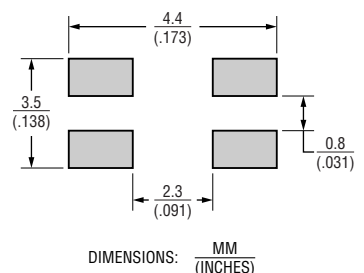
**WARNING**  
 Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* 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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### Recommended Layout

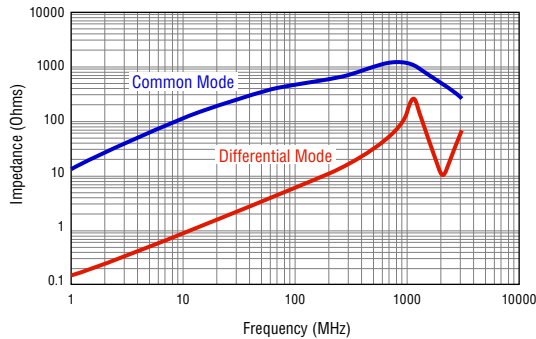


# SRF3225TP Series – Common Mode Chokes

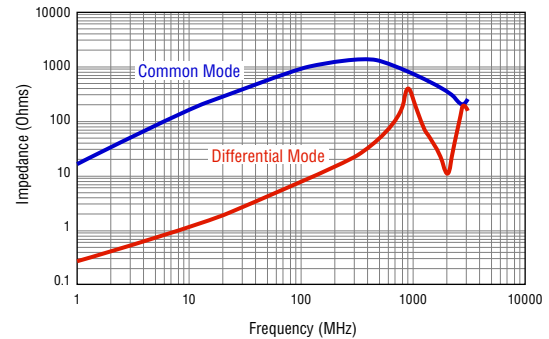
**BOURNS®**

## Typical Impedance vs. Frequency Curves

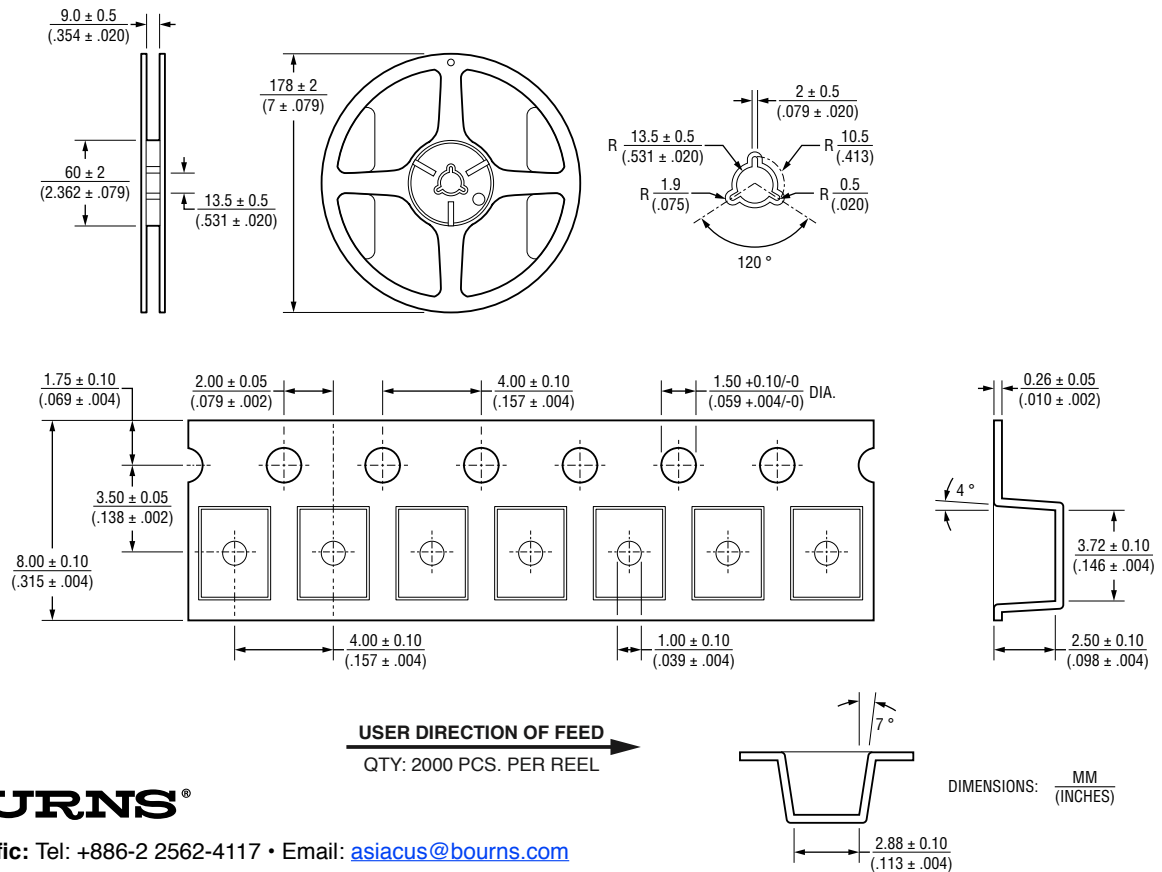
SRF3225TP-501Y



SRF3225TP-102Y



## Packaging Specifications



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REV. 12/23

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