

### Features

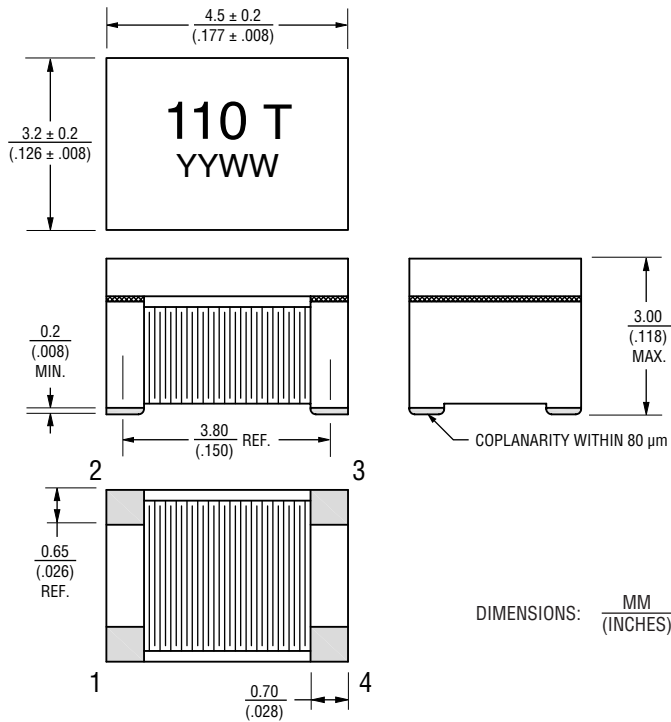
- Shielded construction – low radiation
- Bifilar wound
- High temperature
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRF4530A Series - Common Mode Chip Inductors, CANbus

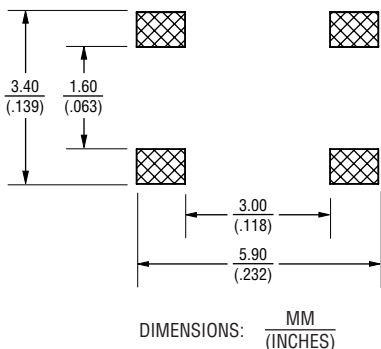
### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Leakage L (μH) @ 100 kHz / 0.1 V	Common Mode Impedance @ 10 MHz		DCR Max. (Ω)	I <sub>rms</sub> (A)
	L (μH)	Tolerance (%)	Typ. (μH)	Min. (kΩ)	Typ. (kΩ)		
SRF4530A-110Y	11.0	+50 / -30	0.10	0.30	0.60	0.50	0.36
SRF4530A-220Y	22.0	+50 / -30	0.15	0.60	1.20	0.60	0.31
SRF4530A-510Y	51.0	+50 / -30	0.25	1.50	3.50	1.00	0.23
SRF4530A-101Y	100.0	+50 / -30	0.30	3.00	7.50	1.50	0.20

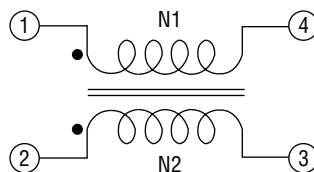
### Product Dimensions



### Recommended Layout



### Schematic



### General Specifications

Rated Voltage ..... 50 VDC  
 Insulation Resistance ..... 10 megohms min. @ 50 VDC  
 Operating Temperature ..... -55 °C to +150 °C  
 (Temperature rise included)  
 Storage Temperature ..... -55 °C to +150 °C  
 Temperature Rise ..... 40 °C at rated I<sub>rms</sub>

### Materials

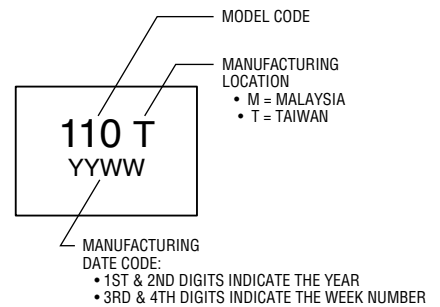
Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Au  
 Packaging ..... 500 pcs. per 7-inch reel

### How to Order

**SRF4530A - 220 Y**

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

### Typical Part Marking



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

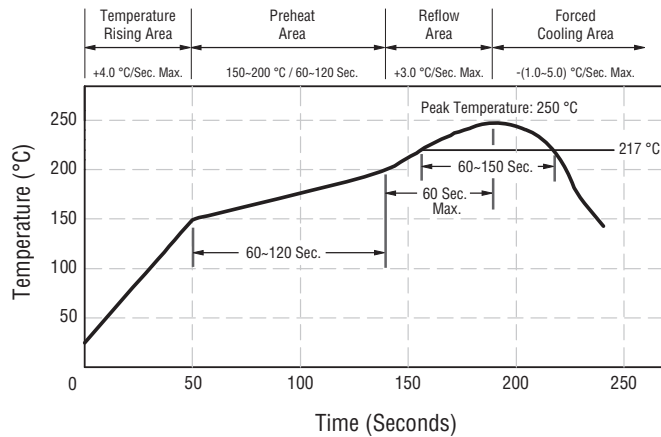
\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
 \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.  
 Users should verify actual device performance in their specific applications.

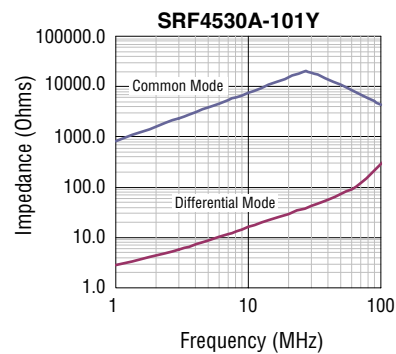
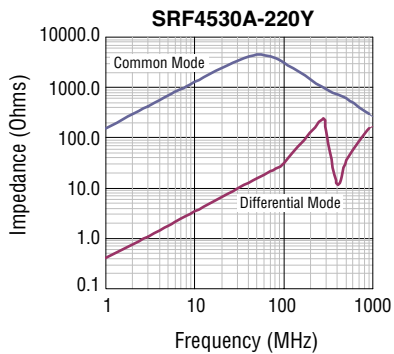
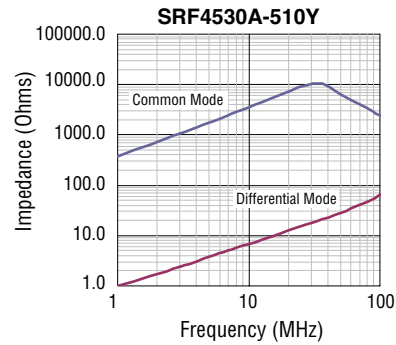
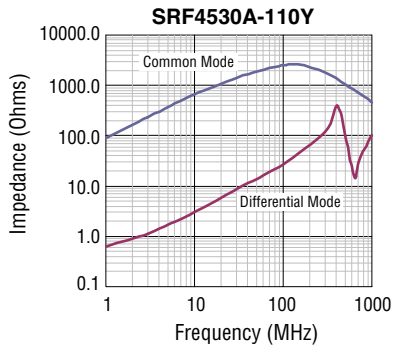
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**Soldering Profile**

Peak Temperature: 250 °C max.  
 Max. Peak Temperature -5 °C: 30 sec. max.  
 Max. Time Above 217 °C: 60-150 sec. max.



**Typical Impedance vs. Frequency**

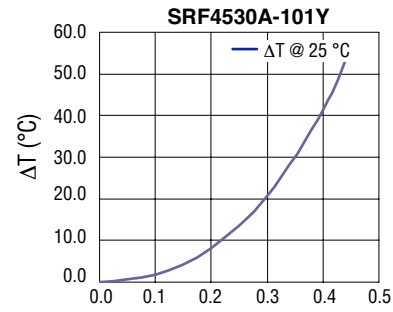
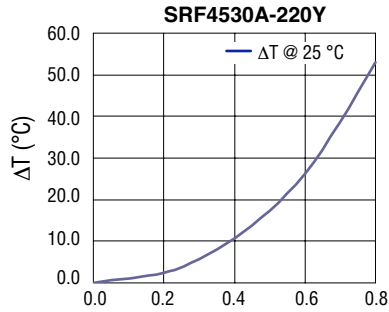
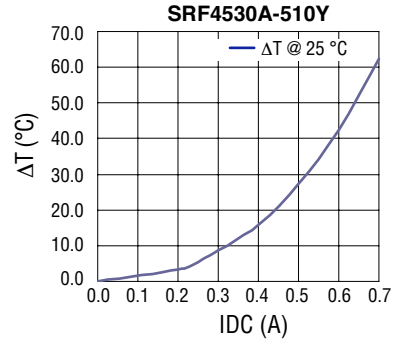
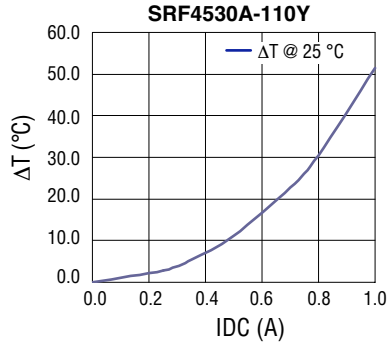


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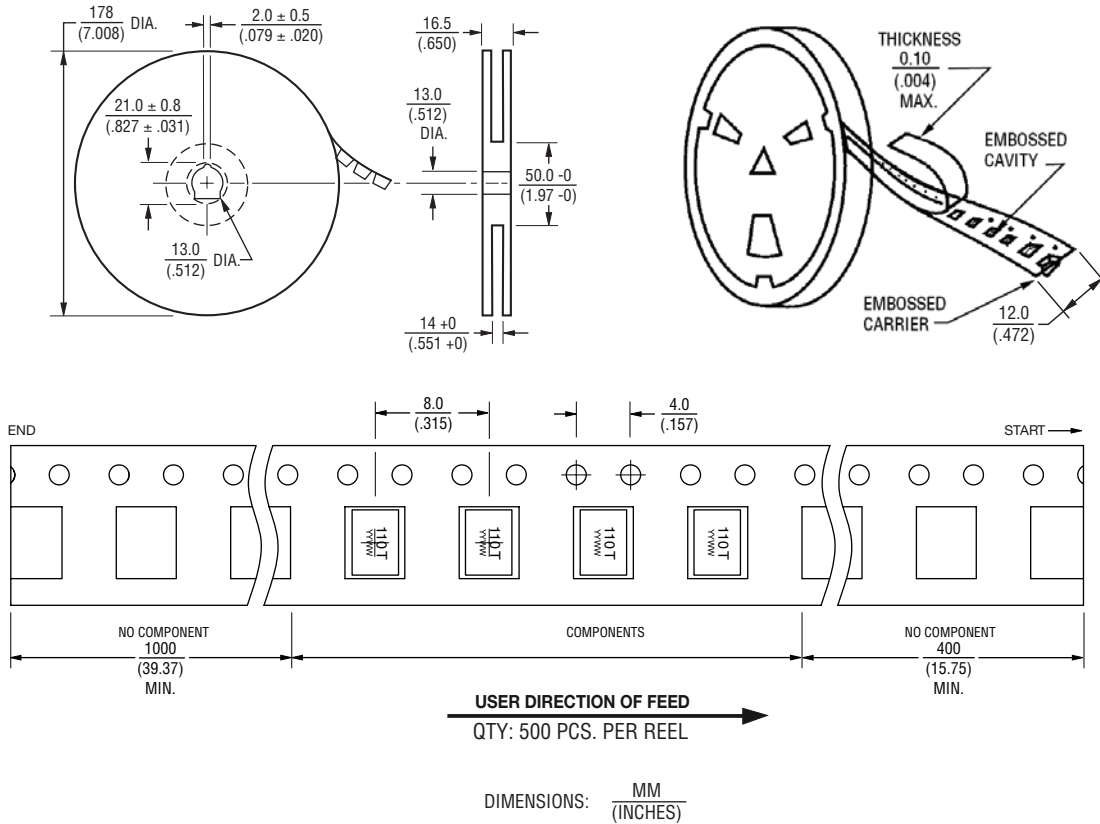
Temperature Rise vs. IDC



# SRF4530A Series - Common Mode Chip Inductors, CANbus

**BOURNS®**

## Packaging Specifications



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