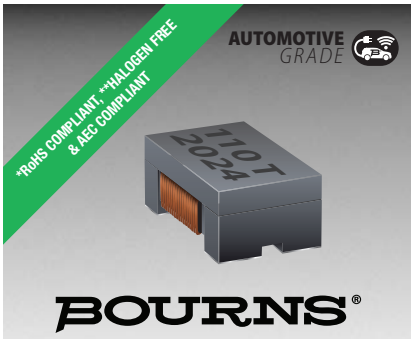




**THE DATASHEET OF
SRF4530A-510Y**





Features

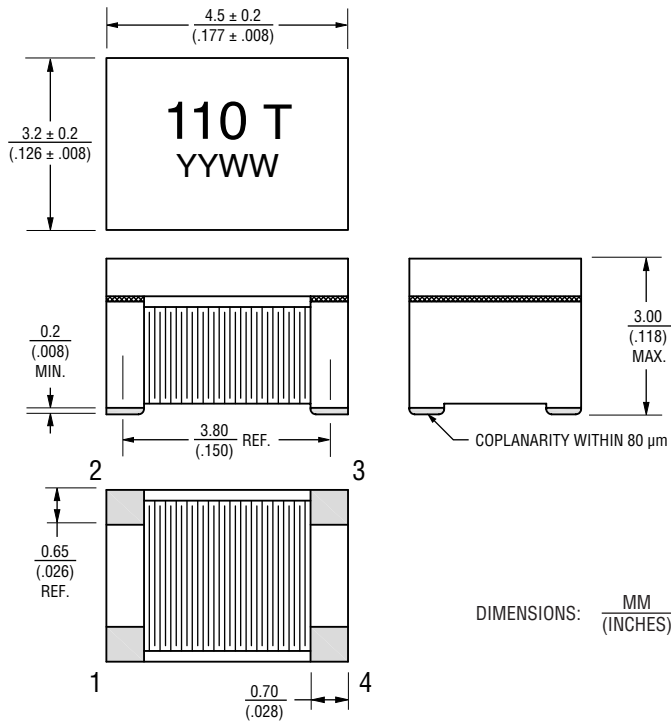
- Shielded construction – low radiation
- Bifilar wound
- High temperature
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRF4530A Series - Common Mode Chip Inductors, CANbus

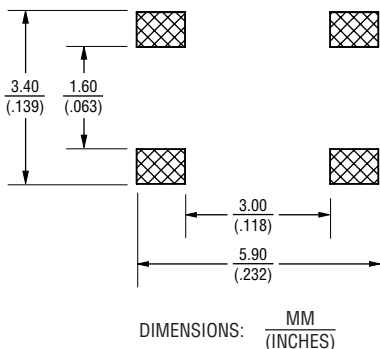
Electrical Specifications @ 25 °C

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 _{rms} (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

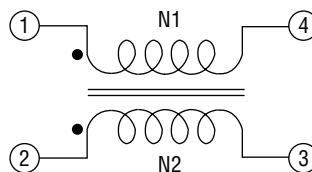
Product Dimensions



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_{rms}

Materials

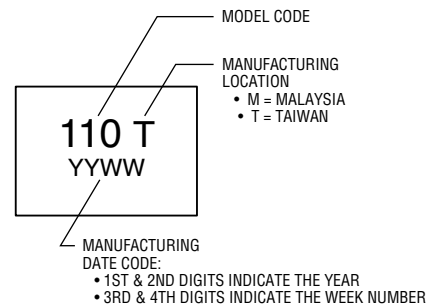
Core Ferrite
 Wire Enameled copper
 Terminal Finish Au
 Packaging 500 pcs. per 7-inch reel

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

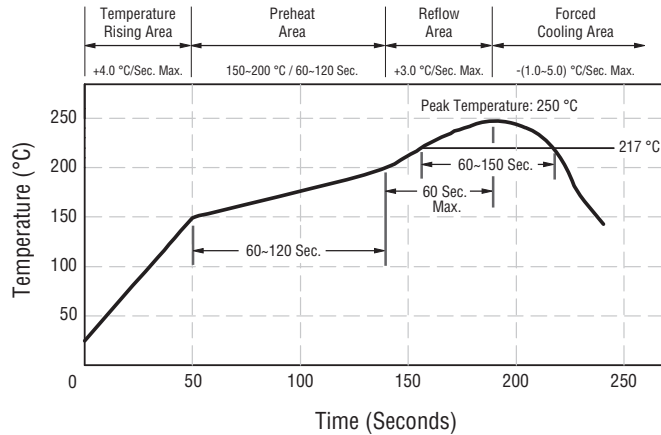
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 ** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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

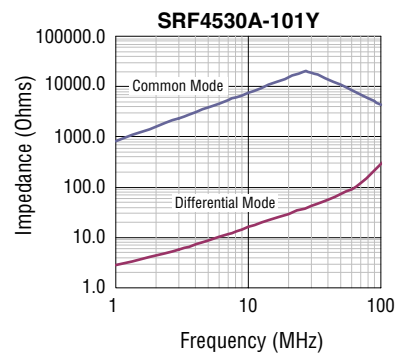
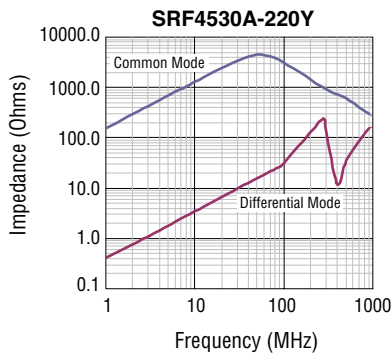
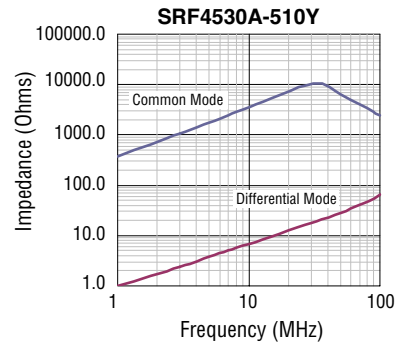
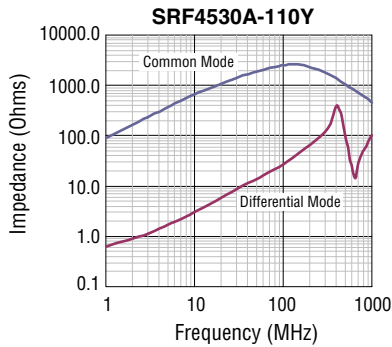
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Soldering Profile

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

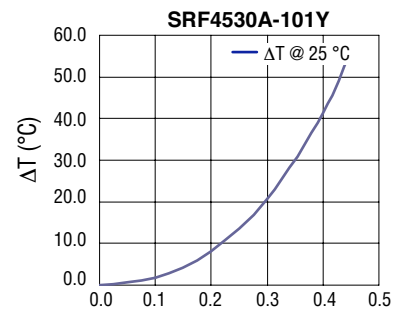
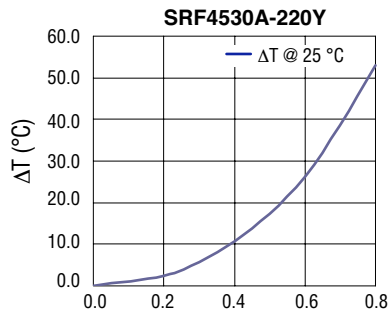
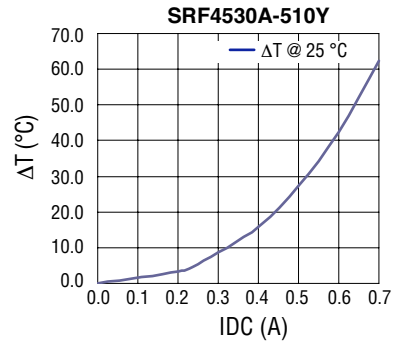
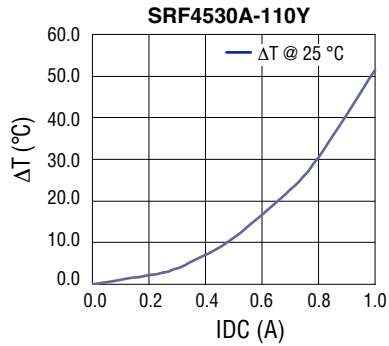


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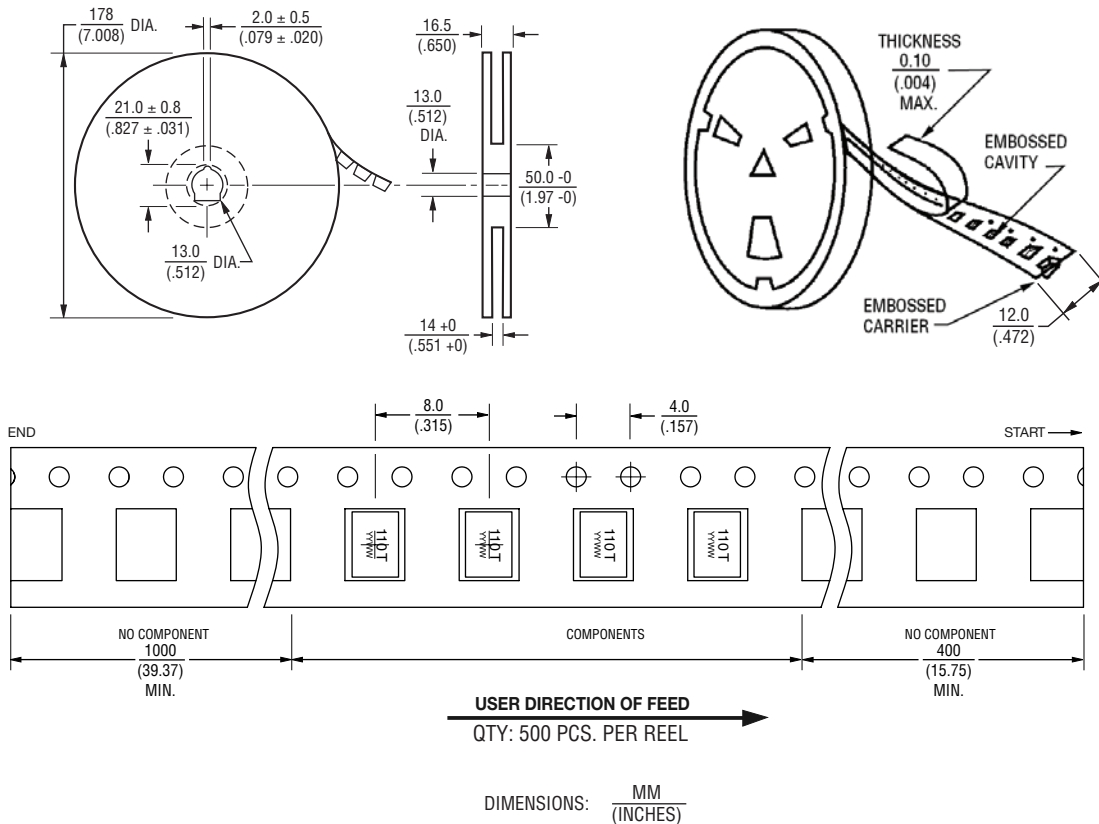
Temperature Rise vs. IDC



SRF4530A Series - Common Mode Chip Inductors, CANbus



Packaging Specifications



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

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

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

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07/20

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