

Features

- AC EMI filtering common mode choke
- Inductance range: 2.90 to 8.90 mH
- Rated current: up to 25 Amps
- Operating temperature: -40 °C to +125 °C
- RoHS compliant*

Applications

- AC power supplies
- AC input filters
- DC power converters
- General EMI applications

Sustainability

- Eco-logistics-friendly packing
- Energy-saving low power design
- High efficiency, low power loss
- ISO 14001, low impact energy
- Responsibly sourced and produced
- Meets EU 94/62/EC standards

Product Overview

Bourns® CM4030 Series Common Mode Choke offers inductance ranges from 2.90 mH to 8.90 mH nominally and current ranges from 10 A to 25 A with a footprint measuring 41 mm long, 31 mm wide, and 40 mm tall.

The CM4030 Series is designed for filtering common mode noise in a wide range of industrial and commercial applications such as energy storage,

enterprise computing, and green energy. A high permeability nanocrystalline core results in self resonant frequencies up to 3 MHz - ideal for filtering high frequency switching supplies with temperature ratings from -40 °C to +125 °C.

Please contact Bourns for customized solutions with extended sizes, inductance and current ranges.

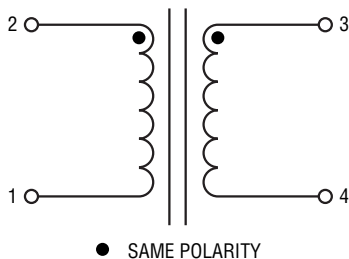
Electrical Specifications (@ T_A = 25 °C Unless Otherwise Noted)

Bourns Part Number	Inductance @ 100K, 0.1 V (mH)	Tolerance (%)	Leakage Inductance @ 100K, 0.1 V Max. (μH)	DCR Max. (mΩ)	I _{rms} Max. (A)	Hi-Pot 3.0K VAC, 2 s Max. (mA)
CM40300CT-892	8.90	-40 / +50	40	24.24	10	3.0
CM40301CT-522	5.20		24.75	10.8	15	
CM40302CT-452	4.50		23	8.62	20	
CM40303CT-292	2.90		16	5.2	25	

Environmental Specifications

Operating Temperature -40 °C to +125 °C
(Temperature Rise Included)
Storage Temperature -25 °C to +85 °C
Moisture Sensitivity Level 1

Electrical Schematic



Materials

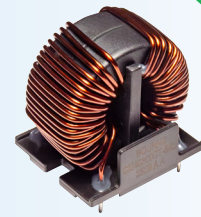
Core Nanocrystalline
Wire Enamelled copper
Terminal Finish Sn
Glue Epoxy

Contact Information

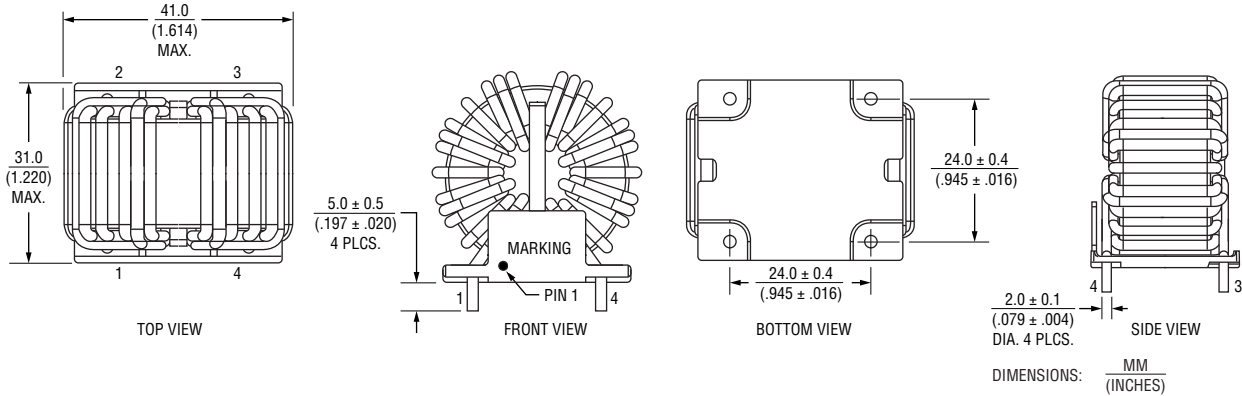
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* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.

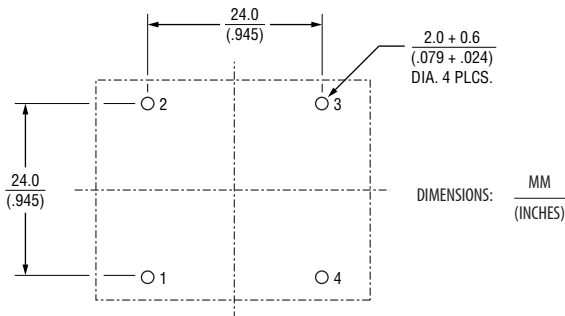
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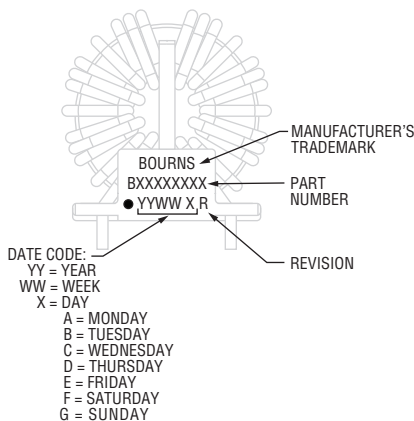
Product Dimensions



Recommended Layout



Typical Part Marking



How to Order

CM 4030 0 C T - 892

Series _____
CM = Common Mode

Core and Size _____
40 = Length; 30 = Width

Series Number _____
• 0
• 1
• 2
• 3

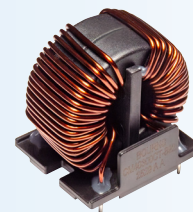
Reliability Level _____
C = Consumer Grade

Pin Style _____
T = Through-hole

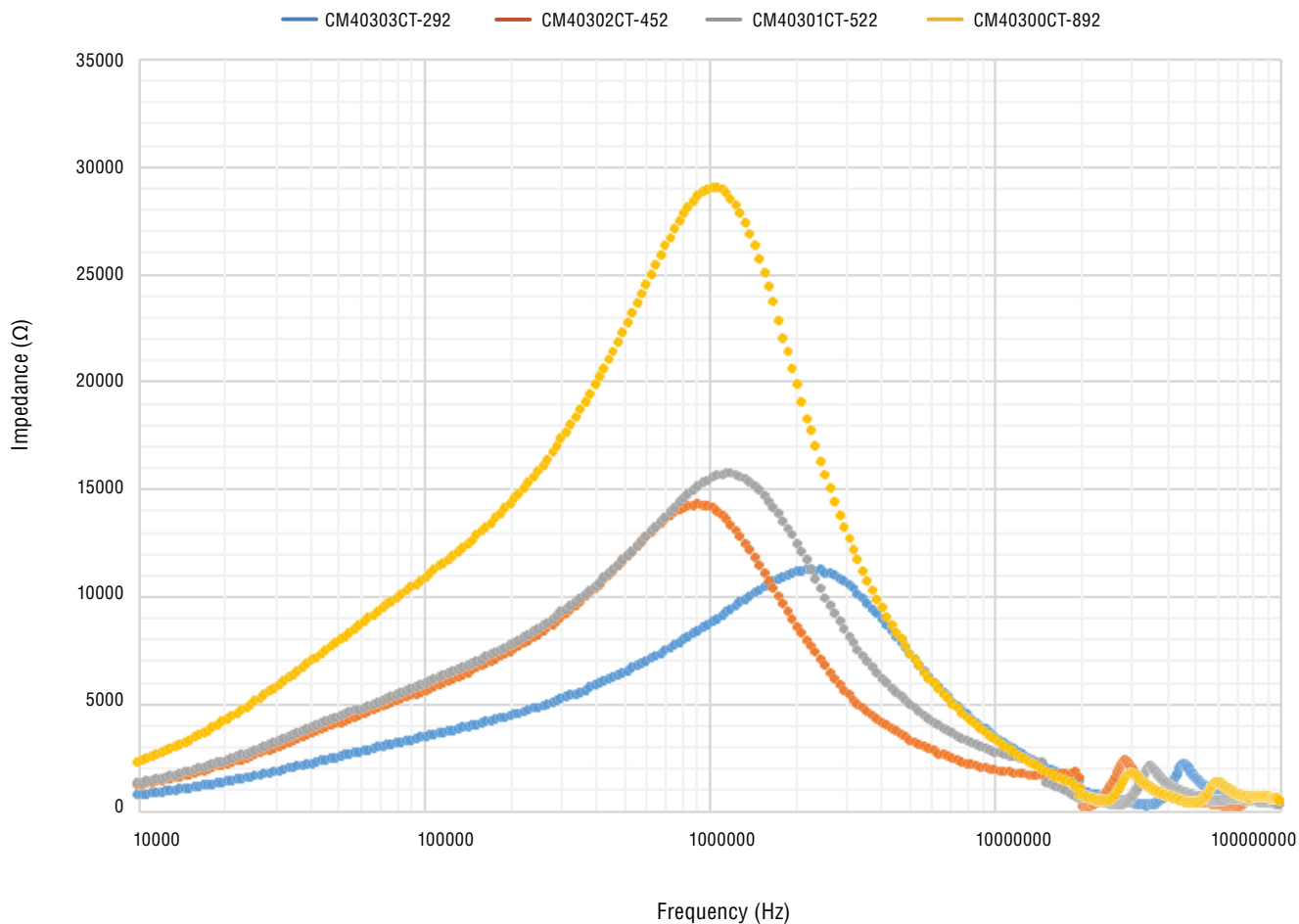
Inductance Value (mH) _____
892 = 8.90
522 = 5.20
452 = 4.50
292 = 2.90

Packaging Specifications

Box20 pcs. per box / 80 pcs. per carton

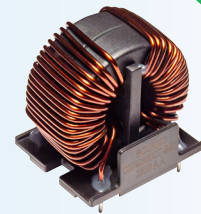


Impedance



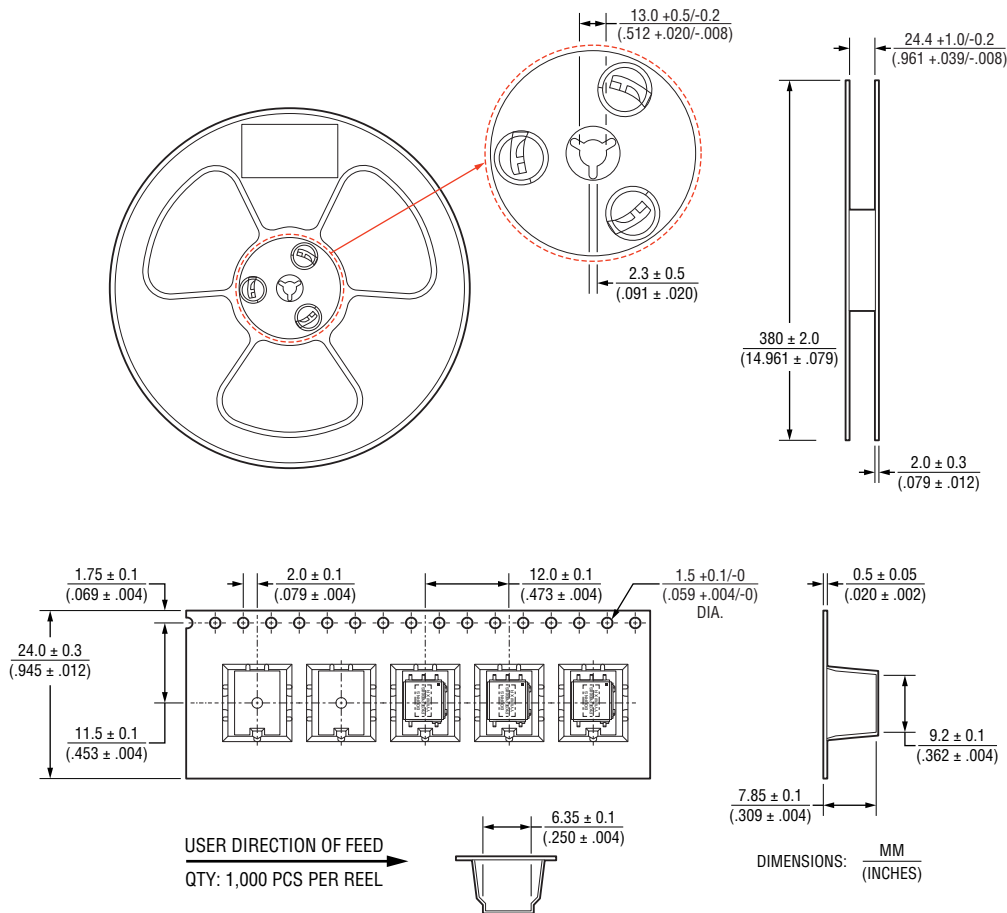
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.

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Packaging Specifications

1000 pieces per reel, 5 reels per carton.



REV. 11/25

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