



Bourns Releases Common Mode Chokes

Model CM1309 Series

Riverside, California – October 29, 2024 – Bourns Custom Magnetics Product Line is introducing the [Model CM1309 Series Common Mode Choke](#). The Model CM1309 Series offers a nominal inductance range from 1 mH to 8.7 mH and a current range from 0.7 A to 2.8 A with a footprint measuring 13 mm long, 9.2 mm wide, and 16 mm high.

The Model CM1309 Series Common Mode Choke 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 ferrite core results in self-resonant frequencies ranging from 390 kHz to 1.6 MHz – ideal for filtering high frequency switching supplies with temperature ratings from -40 °C to +125 °C.

Please [contact Bourns](#) for additional technical support and customized solutions (extended sizes, inductance and current ranges).

Model CM1309 Series Common Mode Choke Characteristics:

Bourns Part Number	Test Condition	Inductance (mH) +50 % / -35 %	Current ¹ (Amperes) Max.	Leakage Inductance (μH) Typ.	DCR (milliohms) Max.	SRF (MHz) Typ.
CM13091CT-872	10 kHz, 0.1 V	8.7	0.7	30	215	0.39
CM13092CT-412	10 kHz, 0.1 V	4.1	1.2	14	85	0.66
CM13090CT-242	10 kHz, 0.1 V	2.4	2.0	8.5	50	1.05
CM13093CT-102	10 kHz, 0.1 V	1.0	2.8	3.8	22	1.65

Notes:

1. Rated current to cause approx. 40 °C temperature rise

2. Hi-Pot between windings over 600 VAC, 3 S

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Please visit the Bourns website at www.bourns.com for additional product details check out the [Magnetics Technical Library](#) for application notes, white papers and other useful documents. Feel free to contact [Bourns Customer Service/Inside Sales](#) if you have any questions.

Features

- AC EMI Filtering
- Compact size
- Inductance range: 1.0 to 8.7 mH
- Rated current up to 2.8 Amps
- RoHS* and REACH compliant
- Operating temperature range: -40 °C to +125 °C

Applications

- Transistor gate drive power
- Inverter circuits
- Motor drives
- Power delivery
- AC power supplies
- AC input filters
- DC power converters
- General EMI filtering applications

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