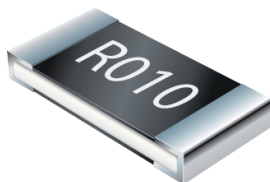


# PRODUCT EXTENSION RELEASE

## RESISTORS




### Bourns Releases AEC-Q200 Compliant, Automotive Grade Current Sense Resistor Extension *CRF2010 Series*

Riverside, California - July 3, 2025 – Bourns is pleased to announce the CRF Series AEC-Q200 Compliant, Automotive Grade Metal Strip Current Sensing Resistors with an extended size option of a 2010 footprint.

The [CRF2010 Series](#) supports resistance tolerances of 1 % and 5 % with a fixed TCR value of  $\pm 50$  PPM/ $^{\circ}\text{C}$ . These current sense resistors support a resistance range from 1 m $\Omega$  to 50 m $\Omega$ . In addition to this, we are also making the CRF2512 available in a high power 3W version supporting a resistance range from 0.3 m $\Omega$  to 0.75 m $\Omega$ .

This series is suitable for applications requiring a small package size with accurate resistance values, TCRs, and resistance tolerance, such as EV low-voltage distribution current sensing, battery management systems (BMS), inverter phase current monitoring, and robotic drive system current control.

#### Features

- Resistance value as low as 0.0003 ohm
- High power density
- Inductance less than 5 nH
- Low thermal EMF:  $< 3 \mu\text{V}/^{\circ}\text{C}$  (0805~2010);  $< 40 \mu\text{V}/^{\circ}\text{C}$  (2512)
- RoHS compliant\*
- AEC-Q200 compliant
-  **AUTOMOTIVE GRADE**

#### Applications

- Power supplies
- Stepper motor drives
- Input amplifiers

Visit Bourns Technical Library for application notes, white papers and other resistor technical documents: <https://www.bourns.com/resources/technical-library/library-documents/resistors-technical-library>. For further details on these exciting new models, please contact [Bourns Customer Service/Inside Sales](#).

#### Additional Information

[DATA SHEET](#)[PRODUCT SELECTOR](#)[TECHNICAL LIBRARY](#)[INVENTORY](#)[SAMPLES](#)[CONTACT](#)

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

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