



PRODUCT EXTENSION RELEASE

RESISTORS



Bourns Releases AEC-Q200 Compliant/Automotive Grade Current Sense Resistor Extension

CRK1225 Series

Riverside, California - July 3, 2025 – The Bourns Resistors Product Line is pleased to announce the extension of its CRK Series. The new [CRK1225 Series](#) provides a higher power rating of up to 3 W and supports a wider resistance range.

Current sense resistors are growing in popularity due to their small package size, accurate TCR and relatively low cost compared to other technologies. These resistors detect and convert current to an easily measured voltage which is proportional to the current flowing conducted through the device.

The CRK series can be measured as 4-terminal resistors. A recommended layout guide is provided in the Bourns datasheet to allow customers to easily design their PCB and measure current flow.

Model Name	Size	Rated Power	Resistance Range	Temperature Coefficient	Tolerance
CRK1225	1225	3 W	1 mΩ to 55 mΩ	±100PPM/°C	±1 %, ±5 %

Please visit the Bourns website at www.bourns.com for additional product details and contact [Bourns Customer Service/Inside Sales](#) if you have any questions.

Features

- Wide terminal type
- Excellent heat dissipation
- Low inductance <5 nH
- Low thermal EMF <40 μV/°C
- High reliability
- AEC-Q200 compliant
- RoHS compliant* and halogen free**



Applications

- Current sensing
- Power supplies
- Stepper motor drives
- Input amplifiers

Additional Information

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

* 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.

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