

NEW PRODUCT RELEASE  
RESISTORS

## Bourns Releases New Metal Thick Film Resistors

### CRN Series

Riverside, California - November 24, 2025 – Bourns is pleased to announce the release of the new [CRN Series](#), a low ohmic solution for thick film resistors engineered for precise current sensing and low voltage power applications.

The Bourns<sup>®</sup> CRN Series is available in compact size, offering power ratings up to 2 W and resistance values from 47 mΩ to 10 Ω. Utilizing a metal based resistance element layer instead of traditional carbon based film, the CRN Series ensures lead-free construction and is RoHS compliant\*.

The CRN Series supports an operating temperature range from –55 °C to +155 °C. The series has been qualified against IEC 60115-1 test requirements for overload, operational life, solder heat, solderability, and board flex. With its balance of low resistance values, high power density, and environmental compliance, the CRN Series offers a durable and cost-efficient solution for electronic designs.

Model	Power Rating @70 °C (W) (Standard/High Power)	Resistance Range	TCR (ppm/ °C)	Tolerance
CRN0603	0.125 / 0.25	47 mΩ to 910 mΩ	±100 to ±200	±1 %, ±5 %
CRN0805	0.25 / 0.5	47 mΩ to 910 mΩ	±100	
CRN1206	0.33 / 0.75	47 mΩ to 10 Ω	±100	
CRN1210	0.67 / 0.75	47 mΩ to 910 mΩ	±100	
CRN2010	0.75 / 1.0	47 mΩ to 10 Ω	±100	
CRN2512	1.0 / 2.0	47 mΩ to 10 Ω	±100	

For more details, please visit the Bourns website at [bourns.com](https://bourns.com). If you have any questions or need additional information, please feel free to contact [Bourns Customer Service/ Inside Sales](#).

### Features

- High power rating up to 2 watts
- Metal thick film technology
- Low resistance from 47 mΩ to 10 Ω
- RoHS compliant\* without exemption

### Applications

- Low voltage power supplies
- Industry controllers
- Digital meters
- Industry controllers

### Additional Information

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

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

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