BOURNS®

NEW PRODUCT RELEASE

RESISTORS



Bourns Releases New AEC-Q200 Compliant, Automotive Grade Wide Terminal Thick Film Resistors

CWM-Q Series

Riverside, California - September 11, 2025 – Bourns is pleased to announce the release of the new CWM-Q series, a new line of automotive grade wide terminal thick film resistors designed for high power density and robust performance in demanding applications.

The Bourns® CWM-Q Series is available in compact 0612 and 1225 case sizes, offering power ratings up to 2 W and resistance values ranging from 1 Ω to 1 MΩ. Featuring a wide terminal design for improved thermal dissipation, these resistors are well-suited for space-constrained applications requiring high electrical and mechanical stability, such as automotive ECUs, LED lighting modules, and power management systems. All models are qualified to AEC-Q200 standards to meet the stringent reliability requirements of automotive grade components.

Constructed with RoHS-compliant* materials and designed for compatibility with standard reflow soldering processes, the CWM-Q Series ensures consistent performance across a wide operating temperature range from -55 °C to +155 °C. The series has demonstrated strong endurance under accelerated stress conditions, including thermal cycling, high temperature exposure, moisture resistance, and mechanical shock. These attributes make the CWM-Q Series an ideal choice for integration into automotive electronics, industrial control systems, and other high-reliability power applications.

Model	Power Rating @70 °C (W)	Resistance Range (Ω)	TCR	Tolerance
CWM0612Q	1	1 Ω to 1 MΩ	±100 to ±200 ppm/°C	±1 %, ±5 %
CWM1226Q	2			

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

- High power rating up to 2W
- Wide terminal thick film
- Resistance range 1 Ω to 1M Ω
- AEC-Q200 compliant
- RoHS compliant*
- AUTOMOTIVE GRADE

Applications

- Power supplies
- Industrial controllers
- Digital meters
- LED lighting
- Automotive

Additional Information

DATA SHEET | PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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

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