



Bourns Introduces UT-A Series AEC-Q200 Compliant Power Wirewound Resistors for High-Temperature Automotive Applications

Wide power range and extended temperature performance support high-reliability automotive power systems

RIVERSIDE, Calif., September 2, 2026 - Bourns today announced the [UT-A Series](#), a new line of AEC-Q200 compliant high-temperature power wirewound resistors engineered for demanding automotive power systems. Spanning power ratings from 1 W to 10 W and resistance values from 10 Ω to 4.5 k Ω , the UT-A Series gives automotive power system designers a single, qualified family that scales from low-power signal conditioning to high-power load and braking circuits.

In automotive power systems, resistors routinely operate near engine bays, braking assemblies, and power conversion modules, where junction temperatures can exceed what standard industrial components are rated to handle. AEC-Q200 qualification provides design teams and their procurement organizations with a documented reliability baseline tied to those conditions—reducing qualification risk during PPAP and system validation. The UT-A Series' extended operating range of -55°C to $+150^{\circ}\text{C}$, combined with tight resistance tolerances, makes it directly applicable to powertrain and chassis subsystems where thermal margin and measurement accuracy both matter.

"Automotive power system designers need resistors that maintain their characteristics under sustained high-temperature loads, not just in brief transients. The UT-A Series is built for that environment—from the wirewound construction that supports long-term stability to the AEC-Q200 qualification that simplifies their compliance path."

— **Walter Garcia, Product Line Manager Resistors at Bourns**

Design Features and Key Capabilities

- **Wide power and resistance ranges** — power ratings from 1 W to 10 W and resistance values from 10 Ω to 4.5 k Ω support selection across multiple circuit requirements
- **Tight resistance tolerance** — options as low as $\pm 1\%$ help minimize component variation and support stable, accurate circuit performance
- **Low standard TCR** — ± 30 ppm/ $^{\circ}\text{C}$ helps limit resistance variation as temperature changes
- **High-temperature operation** — specified for operation from -55°C to $+150^{\circ}\text{C}$ when used within the applicable power derating limits
- **Excellent pulse handling** — wirewound technology supports applications exposed to transient energy
- **Durable construction** — ceramic core, flame-resistant silicone coating, and all-welded terminations support long-term reliability
- **AEC-Q200 and RoHS compliant***

Electrical Specifications

Parameter	UT-A Series
Power Rating	1 W to 10 W
Resistance Range	10 Ω to 4.5 k Ω (UT10-A: 1 k Ω maximum)
Resistance Tolerance	$\pm 1\%$ to $\pm 10\%$ ($\pm 1\%$ standard)
Temperature Coefficient	± 30 ppm/ $^{\circ}\text{C}$ standard; other TCR values available on request
Operating Temperature Range	-55°C to $+150^{\circ}\text{C}$
Maximum Working Voltage	$\sqrt{P \times R}$
Dielectric Strength	UT1A: 500 VAC; other models: 1000 VAC

Target Applications

- Energy and storage systems
- Industrial power supplies
- Inverters and motor drives
- Capacitor recharge and discharge circuits
- Voltage regulators
- Telecommunications equipment
- Powertrain, braking, and power conversion systems

Availability

The [Bourns® UT-A Series High-Temperature Power Resistors](#) are available now through Bourns' authorized distribution network. Full specifications and ordering information are available at www.bourns.com. Samples may be requested through [Bourns Customer Service](#).

About Bourns

Bourns is the global electronic components partner for design engineers whose systems must keep working—in vehicles, aircraft, defense and navigation systems, medical devices†, data centers, satellites, consumer electronics, energy systems, and the networks that connect them. Across power, protection, sensing, timing, and thermal management, Bourns builds solutions for the demanding requirements those systems create. The family that founded Bourns in 1947 still governs the company—a stewardship that lets Bourns commit to its people, technologies, and customers for decades rather than quarters. For more information, visit bourns.com.

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