

EBW5216

E-Beam Welded Shunt 5216

Features:

- 15W rating at 70°C
- Values 50 and 100 $\mu\Omega$
- Electron-beam welded technology
- Low thermal EMF
- Low measurement inductance
- Robust copper terminals for busbar mounting
- AEC-Q200 qualified



Description:

EBW5216 is a busbar-mounted shunt resistor for high current measurements in the hundreds of amps range. This product is an electron-beam welded resistance element sandwiched between large copper terminals with optional tin plating. The series offers values of 50 and 100 $\mu\Omega$ at down to 1% tolerance, 150ppm/ $^{\circ}\text{C}$ TCR and <1 $\mu\text{V}/^{\circ}\text{C}$ thermal EMF.

Equivalent to Vishay WSBS5216, this part offers a robust shunt with the option of pressed pin terminals at the voltage sense points which permit through-hole attachment to a PCB.

With a wide temperature range from -65 to $+170^{\circ}\text{C}$ and AEC-Q200 qualification, this component is ideal for a wide range of industrial and energy management applications.

Applications:

- Welding power supply
- Motor drive
- Battery management
- Energy metering
- Process control

Benefits:

- Low measurement error frees up the designer's error budget.
- Ultra-low ohmic values reduce power loss.
- Low self-heating reduces equipment temperature and improves reliability.