



The DNA of tech.™

WFM Power Metal Plate™ Current Sense Resistors

High 3 W and 4 W Power Ratings and Wide Resistance Range from 10 mΩ to 500 mΩ for Better Accuracy

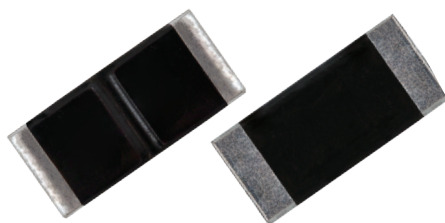


ADVANTAGE

Boost in power density enables use of single resistor instead of multiple in parallel improving measurement accuracy and saving space.

KEY PRODUCT FEATURES

- ✓ Superior pulse performance and superior pulse tolerance
- ✓ Low TCR (< 20ppm/°C); for better temperature stability
- ✓ Tight tolerance (± 1 %); improves measurement accuracy



MARKETS & APPLICATIONS



MOBILITY

- Electronic controls
- Brushless DC motor controls
- Electric and hybrid controls



INDUSTRIAL

- Air conditioning / heat pump



CONSUMER

- Air conditioning / heat pump
- Cookers, refrigerators, washers, dryers



COMPUTER

- DC/DC converter
- RMs for servers



ENERGY SECTOR

- Oil and gas well drilling

RESOURCES



ADDITIONAL BENEFITS

- Features a construction that incorporates an improved thermal management design utilizing a copper heat spreader, enabling high power density and lifetime stability
- Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers, shunts, power inverters, and battery management

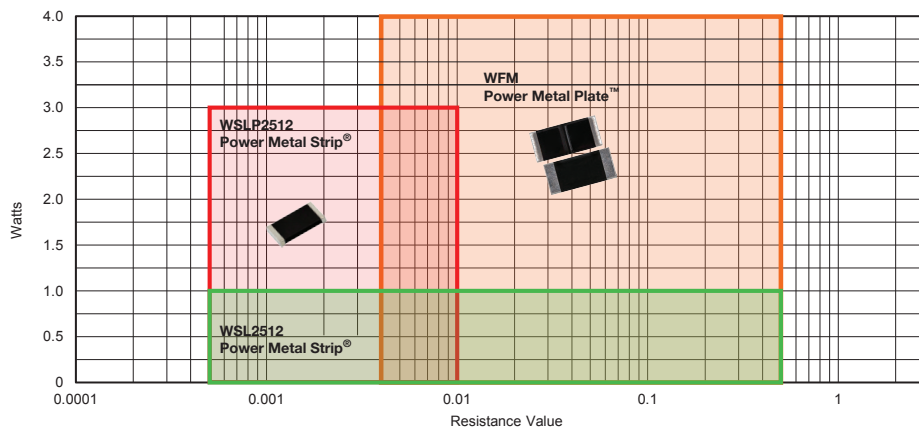
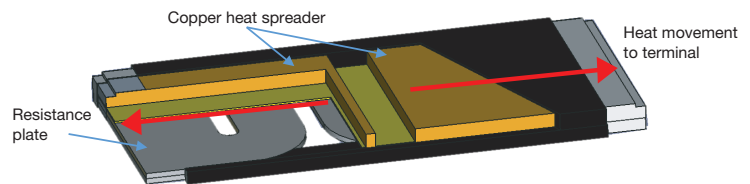
Product Characteristics

Product	Resistance Range (Ω)	Thermal Resistance (°C/W)	Alloy
WFMA2010	0.01 to 0.0329	< 30	Mn-Cu
WFMB2010	0.033 to 0.5	< 55	Ni-Cr
WFMA2512	0.01 to 0.0329	< 25	Mn-Cu
WFMB2512	0.033 to 0.5	< 40	Ni-Cr

Thermally Efficient Design

Copper has a higher thermal conductivity than most metals. The copper plate of the WFM efficiently transfers the heat generated in the resistive element to the PCB, which enables a higher rated power for the standard footprint. This design minimizes hotspot temperature extremes, which leads to superior long term stability at higher rated power.

The WFM extends the resistance range for high power surface-mount current sense applications.



The Automotive Grade performance makes the WFM an ideal choice for demanding power applications that require superior stability and high power density. Please [contact us](#), if you would like to [purchase](#) or order [samples](#).