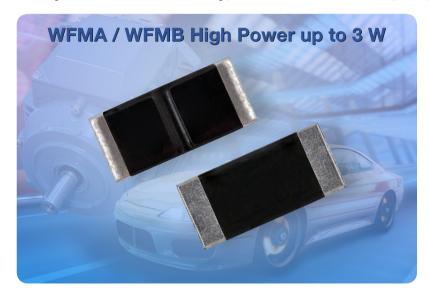


POWER METAL PLATE™

WFM

Power Metal Plate™ Current Sense Resistors, Low Value (5 mΩ to 500 mΩ), Surface-Mount, High Power



KEY BENEFITS

• The WFMA / WFMB resistor has a wide resistance range of 5 m Ω to 500 m Ω and a power capability up to 3 W

APPLICATIONS

- Automotive:
 - Electronic controls (engine controls, climate controls, anti-lock brakes, etc.)
 - Brushless DC motor controls (electronic power steering, electric water pump / oil pump / air conditioning / etc.)
 - Electric and hybrid controls (battery management)
- Industrial:
 - Oil / gas well drilling (down-hole test / measurement equipment)
 - Air conditioning / heat pump (inverter control)
- Consumer:
 - Air conditioning / heat pump (inverter control)
 - White-goods (inverter control)
- Computer:
 - DC/DC converter, VRMs for servers
 - Power management / safety

RESOURCES

- Datasheet: WFM www.vishay.com/ppg?30387
- For technical questions contact ww2bresistors@vishay.com
- Material categorization: for definitions, please see www.vishay.com/doc?99912





RoHS COMPLIANT HALOGEN FREE

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GREEN (5-2008)





POWER METAL PLATE™

 WFM

AUTOMOTIVE

HALOGEN

FREE

GREEN

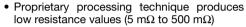
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Power Metal Plate™ Current Sense Resistors, Low Value (5 mΩ to 500 mΩ), Surface-Mount, High Power



FEATURES

- 2010 and 2512 size package
- 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



- Solid metal manganese-copper and nickelchromium-aluminum alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified (1)
- PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

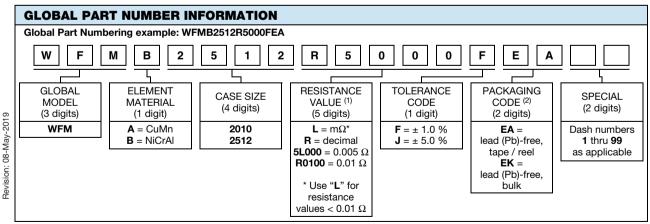
Note

(1) Flame retardance test may not be applicable to some resistor technologies

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	SIZE	POWER RATING (1) W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WFMA2010	2010	2.0 at 110 °C	± 1.0	0.005 to 0.0329	32
WFMB2010	2010	2.0 at 110 °C	± 1.0	0.033 to 0.500	32
WFMA2512	2512	3.0 at 95 °C	± 1.0	0.010 to 0.0329	41
WFMB2512	2512	3.0 at 95 °C	± 1.0	0.033 to 0.500	41

Note

(1) Terminal temperature



Notes

- (1) Resistance values available according to WSL decade values (www.vishay.com/doc?30117)
- (2) Packaging code: EB (lead (Pb)-free) is a non-standard packaging code designating 1000 piece reels. This non-standard packaging code is identical to our standard EA (lead (Pb)-free), except that it has a package quantity of 1000 pieces

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.