



# **POWER METAL STRIP® RESISTORS**



# 36 W Power Metal Strip Battery Shunt Resistor with Molded Enclosure



## **KEY BENEFITS**

- The WSBM8518 is a standard WSBS8518 battery shunt that includes a molded enclosure with a 4-pin connector, providing easy PCB connection to the shunt resistor assembly
- 36 W (to 600 A) power capability in 8518 size shunt
- Very low resistance values (100 μΩ)

## **APPLICATIONS**

- Automotive: battery management of gas/diesel, hybrid, and all-electric systems
- Industrial: battery management of forklift, utility trucks, and other heavy industrial applications

## RESOURCES

- Datasheet: WSBM8518 http://www.vishay.com/doc?31094
- For technical questions contact <u>ww2bresistors@vishay.com</u>



RoHS GREEN



PRODUCT SHEET

VMN-PT0346-1210



**WSBM8518** 

**POWER METAL STRIP® RESISTORS** 



# 36 W Power Metal Strip Battery Shunt Resistor with Molded Enclosure



### **FEATURES**

- · High power-resistor size ratio
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- · Solid metal manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- · Molded enclosure allows for easy PCB connection
- Includes 4-pin female connector (Molex # MX150334820401)
- Very low inductance (< 5 nH)
- Low thermal EMF (< 3 µV/°C)</li>
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	SIZE	POWER RATING P <sub>70 °C</sub> W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE <sup>(1)</sup> Ω	WEIGHT (typical) g		
WSBM8518	8518	36	5.0	0.0001	100µ	60		

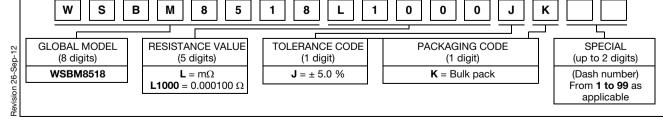
### Note

<sup>(1)</sup> Other values may be available, contact factory

TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	RESISTOR CHARACTERISTICS				
Temperature Coefficient	ppm/°C	± 225				
Temperature Coefficient (Element material)	ppm/°C	± 20				
Operating Temperature Range	°C	- 65 to + 170				
Thermal EMF	µV/°C	< 3				
Inductance	nH	< 5				
Maximum Current Rating	А	(P/R) <sup>1/2</sup>				

### **GLOBAL PART NUMBER INFORMATION**





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