WSBS8518

Vishay Dale



Power Metal Strip® Battery Shunt Resistor, Very Low Value (100 $\mu\Omega$ and 125 $\mu\Omega$)



FEATURES

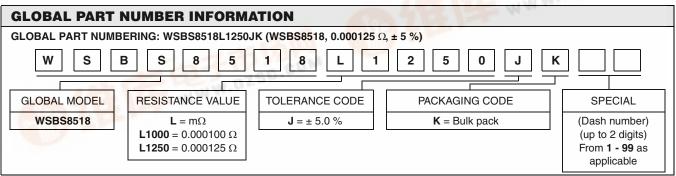
- High power to resistor size ratio
- Proprietary processing technique produces extremely low resistance values



- All welded construction
- RoHS compliant, lead (Pb)-free construction
- Very low inductance (< 5 nH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	POWER RATING P _{70 °C} W	TOLERANCE %	RESISTANCE VALUE $\mu\Omega$	WEIGHT (Typical) g		
WSBS8518	36	5.0	100, 125	46.3		

		WW.DZSC.COM		
TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature Coefficient	ppm/°C	± 225		
Operating Temperature Range	°C	- 65 to + 170		
Maximum Current Rating	A	(P/R) ^{1/2}		

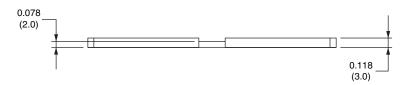


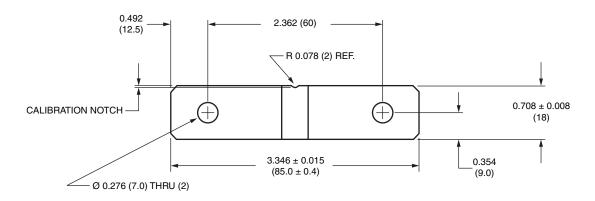


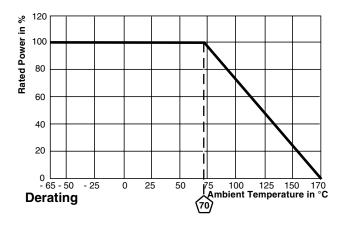
Power Metal Strip® Battery Shunt Resistor, Very Low Value (100 $\mu\Omega$ and 125 $\mu\Omega$)

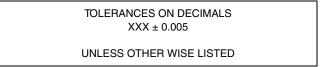
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DIMENSIONS in inches (millimeters)









RESISTANCE VALUE ($\mu\Omega$)	ELEMENT MATERIAL
100	Mn-Cu
125	Mn-Cu

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± 0.5 % ΔR			
Short Time Overload	5 x rated power for 5 s	± 0.5 % ΔR			
Low Temperature Operation	- 65 °C for 45 min	± 0.5 % ΔR			
High Temperature Exposure	1000 h at + 170 °C	± 1.0 % ΔR			
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	± 0.5 % ΔR			
Mechanical Shock	100 g's for 6 ms, 5 pulses	± 0.5 % ΔR			
Vibration	Frequency varied 10 to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 % ΔR			
Load Life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % ΔR			
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± 0.5 % ΔR			



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