WSBS8518

Vishay Dale



Power Metal Strip[®] Battery Shunt Resistor, Very Low Value (100 μ Ω, 125 μ Ω, and 250 μ Ω)



FEATURES

- High power to resistor size ratio
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Very low inductance (< 5 nH)
- Low thermal EMF (< 3 μV/°C)
- Compliant to RoHS directive 2002/95/EC



RoHS

COMPLIANT

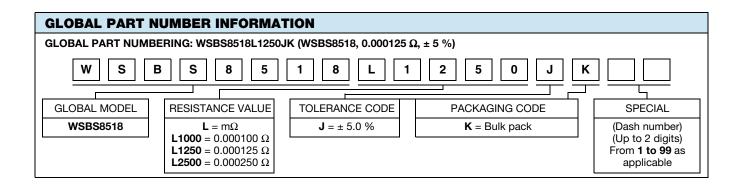
<u>GREEN</u> (5-2008)**

STANDAR	ANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE $^{(1)}$	WEIGHT (typical) g/1000 pieces	
WSBS8518	8518	36	5.0	50µ to 1000µ	100µ, 125µ, 250µ	46 300	

Note

⁽¹⁾ Other values may be available, contact factory

TECHNICAL SPECIFICATIO	ONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS				
Temperature Coefficient	ppm/°C	± 225				
Operating Temperature Range	°C	- 65 to + 170				
Maximum Current Rating	А	(P/R) ^{1/2}				



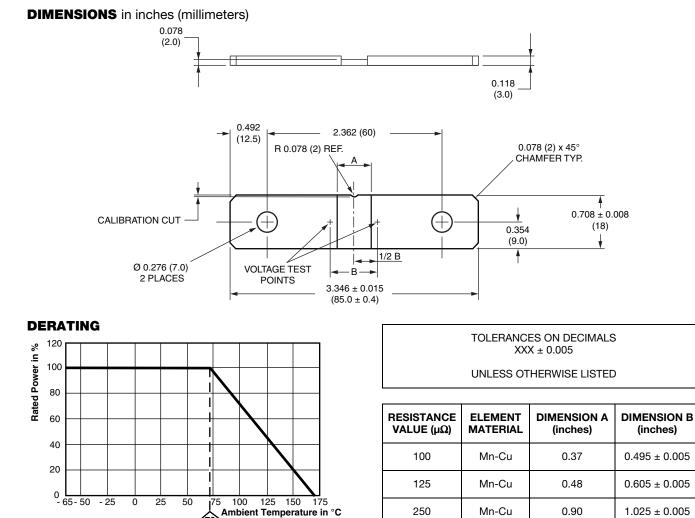
** Please see document "Vishay Material Category Policy": <u>www.vishay.com/doc?99902</u>



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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 Hz 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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