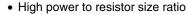
Vishay Dale



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



FEATURES

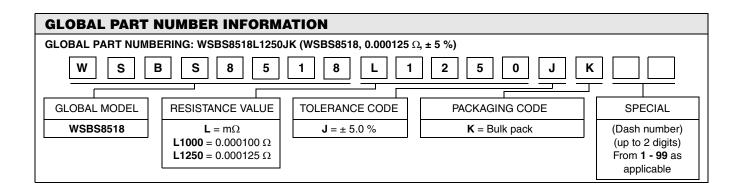




- Proprietary processing technique produces extremely low resistance values
- All welded construction
- RoHS compliant, lead (Pb)-free construction
- Very low inductance (< 5 nH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< $3 \mu V/^{\circ}C$)

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	

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

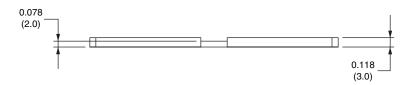


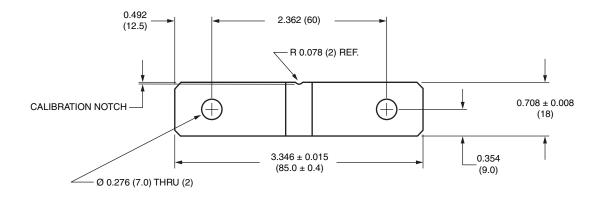


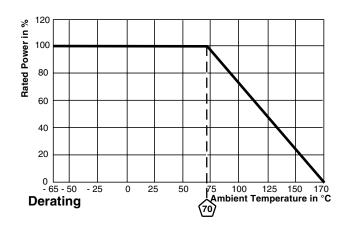
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DIMENSIONS in inches (millimeters)







TOLERANCES ON DECIMALS XXX ± 0.005
UNLESS OTHER WISE LISTED

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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