

Power Metal Strip® Battery Shunt Resistor, Very Low Value (100 $\mu\Omega$, 125 $\mu\Omega$, and 250 $\mu\Omega$)



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 $\mu\text{V}/^\circ\text{C}$)
- Compliant to RoHS directive 2002/95/EC



RoHS
COMPLIANT

GREEN
(5-2009)**

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE ⁽¹⁾ Ω	WEIGHT (typical) g/1000 pieces
WSBS8518	8518	36	5.0	50 μ to 1000 μ	100 μ , 125 μ , 250 μ	46 300

Note

(1) Other values may be available, contact factory

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^\circ\text{C}$	± 225
Operating Temperature Range	$^\circ\text{C}$	- 65 to + 170
Maximum Current Rating	A	$(P/R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

GLOBAL PART NUMBERING: WSBS8518L1250JK (WSBS8518, 0.000125 Ω , $\pm 5\%$)

W S B S 8 5 1 8 L 1 2 5 0 J K

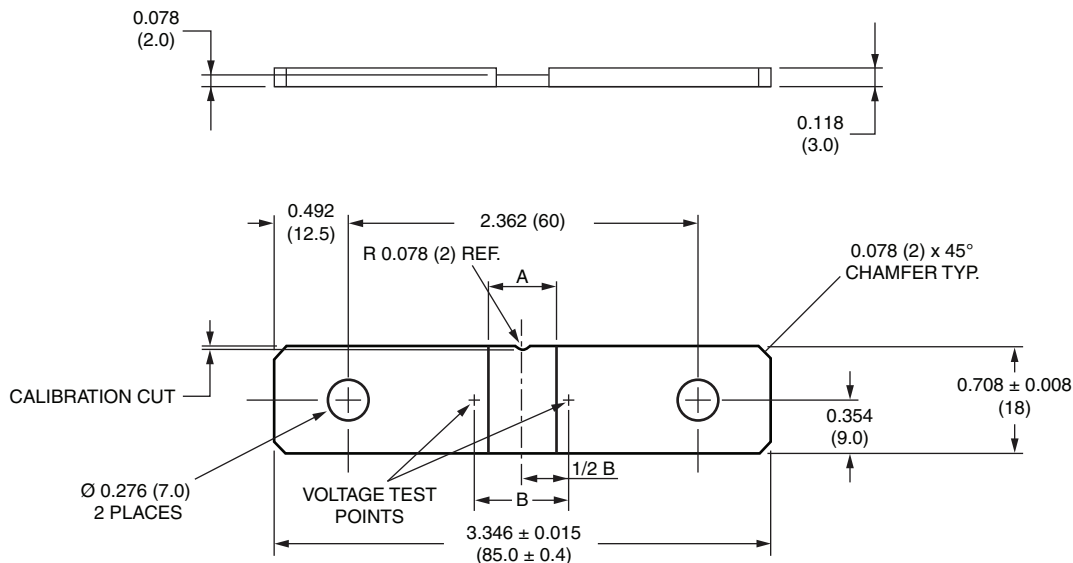
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
WSBS8518	L = m Ω L1000 = 0.000100 Ω L1250 = 0.000125 Ω L2500 = 0.000250 Ω	J = $\pm 5.0\%$	K = Bulk pack	(Dash number) (Up to 2 digits) From 1 to 99 as applicable

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

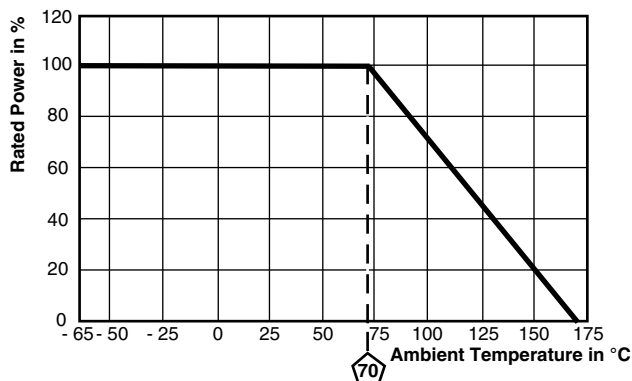
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Vishay Dale

DIMENSIONS in inches (millimeters)



DERATING


TOLERANCES ON DECIMALS
XXX $\pm$ 0.005

UNLESS OTHERWISE LISTED

RESISTANCE VALUE ($\mu\Omega$)	ELEMENT MATERIAL	DIMENSION A (inches)	DIMENSION B (inches)
100	Mn-Cu	0.37	0.495 $\pm$ 0.005
125	Mn-Cu	0.48	0.605 $\pm$ 0.005
250	Mn-Cu	0.90	1.025 $\pm$ 0.005

PERFORMANCE

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



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JONHON

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