WSBM8518



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Power Metal Strip[®] Battery Shunt Resistor W/Molded Enclosure Very Low Value (50 $\mu\Omega$, 100 $\mu\Omega$, 125 $\mu\Omega$, and 500 $\mu\Omega$)



FEATURES

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



COMPLIANT

- HALOGEN FREE Solid metal manganese-copper alloy or **GREEN** nickel-chrome alloy resistive element with low (5-2008) TCR (< 20 ppm/°C)
- Molded enclosure allows for easy PCB connection
- · Includes 4-pin male connector that mates with a Molex type MX150 #33472-4001 female connector
- Very low inductance (< 5 nH)
- Low thermal EMF (as low as < 1 μV/°C)
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

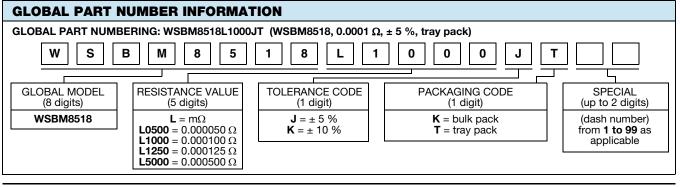
3D	
Models Available	

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING P ₇₀ °c W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	$\begin{array}{c} \text{RESISTANCE VALUES} \\ \text{CURRENTLY AVAILABLE} ^{(1)} \\ \Omega \end{array}$	WEIGHT (typical) g	
WSBM8518	8518	36	5, 10	50µ to 500µ	50µ, 100µ, 125µ	50µ = 61.3, 100µ / 125u = 59.8	
WSBM8518	8518	25	5, 10	50µ to 500µ	500µ	56.8	

Note

⁽¹⁾ Other values may be available, contact factory

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
		\pm 200 for 50 $\mu\Omega$		
Temperature coefficient	ppm/°C	\pm 175 for 100 $\mu\Omega$ / 125 $\mu\Omega$		
		\pm 10 for 500 $\mu\Omega$		
Temperature coefficient (element material)	ppm/°C	± 20		
Operating temperature range	°C	-65 to +170		
Thermal EMF	μV/°C	$<$ 1 for 50 $\mu\Omega$ and $<$ 3 for 100 $\mu\Omega,$ 125 $\mu\Omega,$ 500 $\mu\Omega$		
Inductance	nH	< 5		
Maximum current rating	А	(P/R) ^{1/2}		



Revision: 15-Feb-17

For technical questions, contact: ww2cresistors@vishay.com

Document Number: 31094

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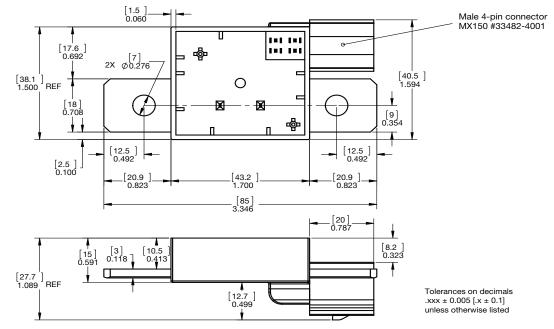
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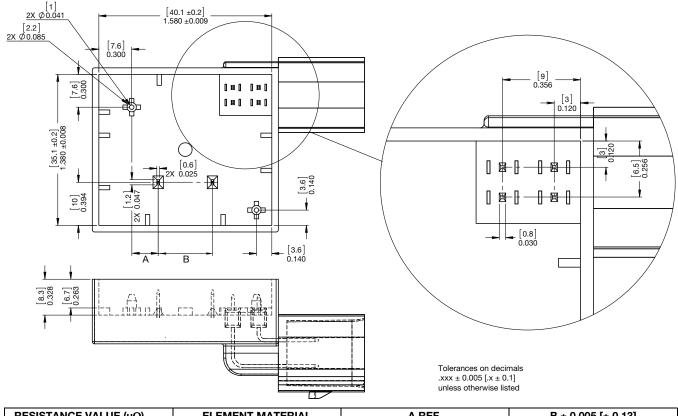


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EXTERNAL DIMENSIONS in inches [millimeters]







RESISTANCE VALUE ($\mu\Omega$)	ELEMENT MATERIAL	A REF.	B ± 0.005 [± 0.13]
50	Mn-Cu	0.423 [10.74]	0.135 [3.43]
100	Mn-Cu	0.242 [6.15]	0.495 [12.57]
125	Mn-Cu	0.197 [5.00]	0.585 [14.86]
500	Ni-Cr	0.143 [3.63]	0.695 [17.65]

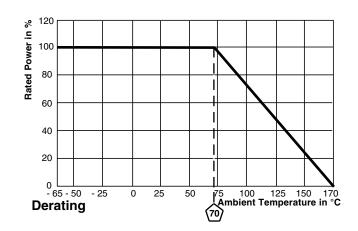
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DERATING



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	5x rated power for 5 s	± 0.5 % ΔR			
Low temperature storage	-65 °C for 24 h	± 0.5 % ΔR			
High temperature exposure	1000 h at +170 °C	± 1.0 % Δ <i>R</i>			
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 % Δ <i>R</i>			
Load life	1000 h at +70 °C, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % ∆ <i>R</i>			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± 0.5 % ∆R			



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