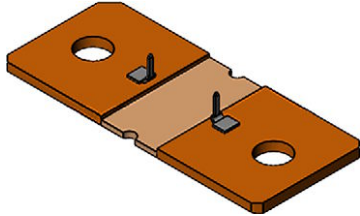


Power Metal Strip® Battery Shunt Resistor With Two Sense Pins Very Low Value (25 μΩ, 50 μΩ, 100 μΩ, and 125 μΩ)



FEATURES

- High power to resistor size ratio
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Solid metal manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 nH)
- Low thermal EMF (< 3 μV/°C)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES



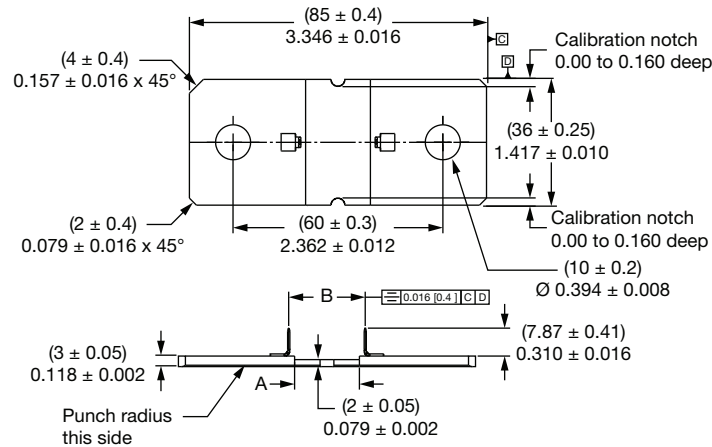
STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE ⁽¹⁾ Ω	WEIGHT (typical) g
WSBS8536...20	8536	50	5, 10	25μ to 125μ	25μ, 50μ, 100μ, 125μ	25μ = 77.5, 50μ = 75.5, 100μ / 125μ = 71.5

Note

⁽¹⁾ Other values may be available, contact factory

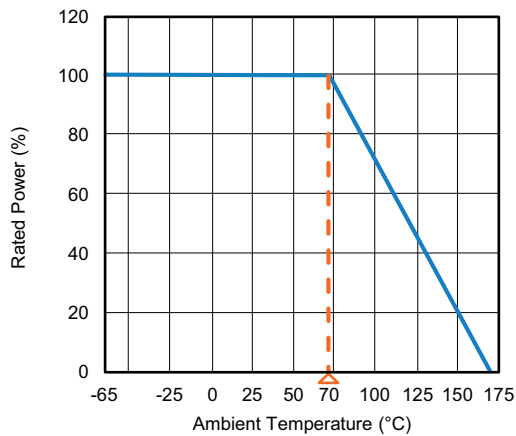
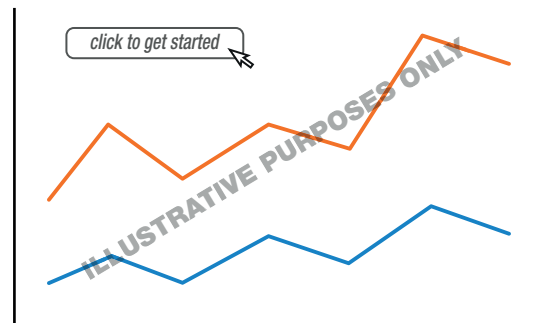
TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature coefficient	ppm/°C	± 200 for 25 μΩ
		± 175 for 50 μΩ
		± 165 for 100 μΩ / 125 μΩ
Temperature coefficient (element material)	ppm/°C	± 20
Operating temperature range	°C	-65 to +170
Maximum current rating	A	$(P/R)^{1/2}$

GLOBAL PART NUMBER INFORMATION																
Global Part Numbering: WSBS8536L1000JT20 (WSBS8536...20, 0.000100 Ω, ± 5 %, tray pack)																
W	S	B	S	8	5	3	6	L	1	0	0	0	J	T	2	0
GLOBAL MODEL				RESISTANCE VALUE				TOLERANCE CODE		PACKAGING CODE			SPECIAL			
WSBS8536				L = mΩ L0500 = 0.000050 Ω L1000 = 0.000100 Ω L1250 = 0.000125 Ω L2500 = 0.000250 Ω				J = ± 5 % K = ± 10 %		T = tray pack K = bulk pack			20 = two sense pins attached			

DIMENSIONS in inches (millimeters)


RESISTANCE VALUE ($\mu\Omega$)	ELEMENT MATERIAL	A REFERENCE	B ± 0.005 (± 0.13)
25	Mn-Cu	0.145 (3.683)	0.135 (3.429)
50	Mn-Cu	0.360 (9.144)	0.492 (12.496)
100	Mn-Cu	0.730 (18.542)	0.862 (21.894)
125	Mn-Cu	0.900 (22.860)	1.032 (26.212)

TOLERANCES ON DECIMALS
 .xxx ± 0.005 (.x ± 0.1)
 UNLESS OTHERWISE LISTED

DERATING

PULSE CAPABILITY


www.vishay.com/resistors/large-shunt-power-metal-strip-calculator/

PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal shock	-55 $^\circ\text{C}$ to +150 $^\circ\text{C}$, 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 storage	-65 $^\circ\text{C}$ for 24 h	$\pm 0.5\%$ ΔR
High temperature exposure	1000 h at +170 $^\circ\text{C}$	$\pm 1.0\%$ ΔR
Bias humidity	+85 $^\circ\text{C}$, 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 $^\circ\text{C}$, 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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