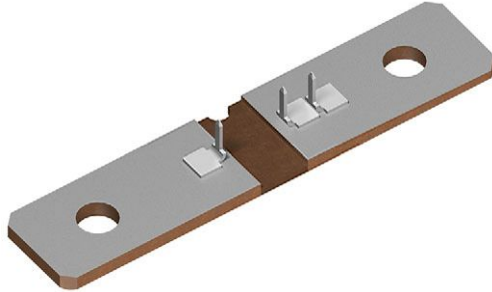


Power Metal Strip® Shunt Resistor With Three Sense Pins, Sn Plated Terminals, Very Low Value (50 μΩ, 100 μΩ, and 125 μΩ)



FEATURES

- High power to resistor size ratio
- Sense pins allow for consistent contact location
- Sn plating assists with PCB mounting and corrosion protection
- Proprietary processing technique produces extremely low resistance values
- Welded terminal to element construction
- Solid metal manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 nH)
- Low thermal EMF (< 1 μV/°C available)
- AEC-Q200 qualified
- 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
WSBS8518...80	8518	36	5, 10	50μ to 1000μ	50μ, 100μ, 125μ	50μ = 38.6, 100μ / 125μ = 37.1

Note

(1) Other values may be available, contact factory

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

GLOBAL PART NUMBER INFORMATION															
GLOBAL PART NUMBERING: WSBS8518L1000JT80 (WSBS8518...80, 0.000100 Ω, ± 5 %, tray pack)															
W	S	B	S	8	5	1	8	L	1	0	0	J	T	8	0
GLOBAL MODEL		RESISTANCE VALUE			TOLERANCE CODE		PACKAGING CODE			SPECIAL					
WSBS8518		L = mΩ L0500 = 0.000050 Ω L1000 = 0.000100 Ω L1250 = 0.000125 Ω			J = ± 5 % K = ± 10 %		K = bulk pack T = tray pack			80 = three sense pins attached with plated terminals					



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