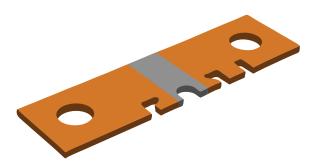


Power Metal Strip® Meter Shunt Resistor,

Very Low Value (down to 0.00010 Ohms)



FEATURES

- High power to resistor size ratio
- 4-terminal (Kelvin) connection design
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Very low inductance (< 0.5 nH)
- Low thermal EMF (< 3 μV/°C)
- PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

Pb-free
RoHS COMPLIANT
HALOGEN FREE

GREEN

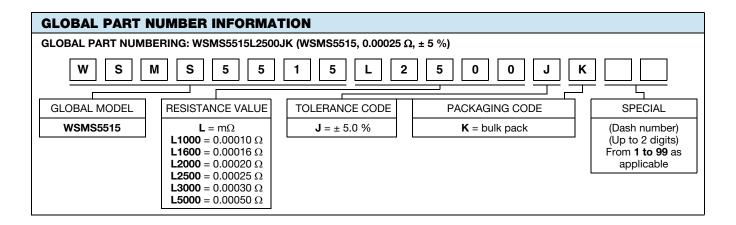
(5-2008)

STANDAR	STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE $^{(1)}$ Ω	WEIGHT (typical) g/1000 pieces	
WSMS5515	5515	3.0	5.0	50μ to 1000μ	100µ, 160µ, 200µ, 250µ, 300µ, 500µ	7800	

Note

⁽¹⁾ Other values may be available, contact factory

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	\pm 325 for 100 $\mu\Omega,$ \pm 225 for 160 $\mu\Omega,$ 200 $\mu\Omega,$ and 250 $\mu\Omega,$ \pm 175 for 300 $\mu\Omega$ to 500 $\mu\Omega$		
Operating temperature range	°C	-65 to +170		
Maximum current rating	А	(P/R) ^{1/2}		

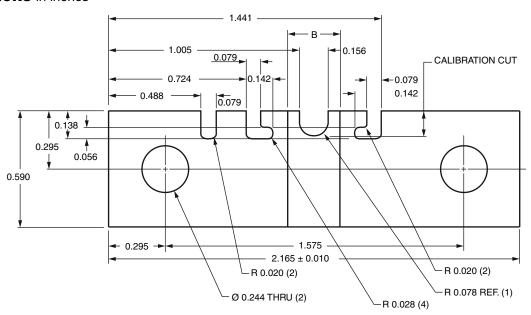


PATENT(S): www.vishay.com/patents

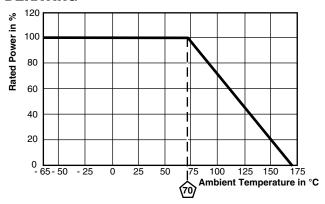
This Vishay product is protected by one or more United States and International patents.



DIMENSIONS in inches



DERATING



TOLERANCES ON DECIMALS XXX \pm 0.005

RESISTANCE VALUE (μΩ)	RESISTOR THICKNESS (inches)	B DIMENSION (inches)	ELEMENT MATERIAL
100	0.033	0.116	Mn-Cu
160	0.051	0.276	Mn-Cu
200	0.051	0.276	Mn-Cu
250	0.033	0.276	Mn-Cu
300	0.033	0.276	Mn-Cu
500	0.059	0.276	Fe-Cr

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 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 Hz 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			



Legal Disclaimer Notice

Vishay

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