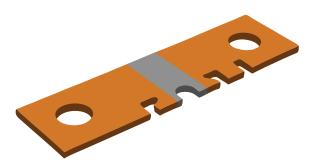


www.vishay.com

## 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)</li>
- PATENT(S): www.vishay.com/patents

Pb-free
RoHS COMPLIANT
HALOGEN

FREE

**GREEN** 

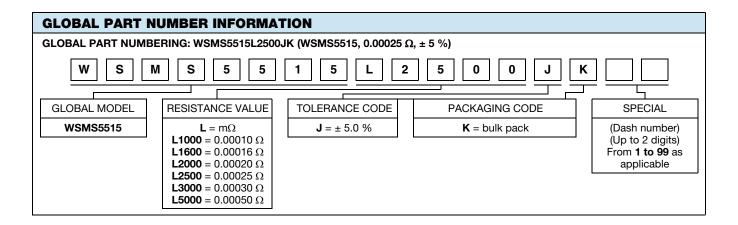
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	please se	ee www.vishay.co	om/c	doc?99912		

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

(1) Other values may be available, contact factory

TECHNICAL SPECIFICATION	ECHNICAL 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) <sup>1/2</sup>		

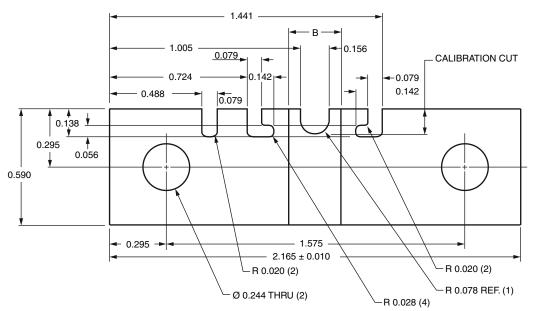


PATENT(S): <a href="https://www.vishay.com/patents">www.vishay.com/patents</a>

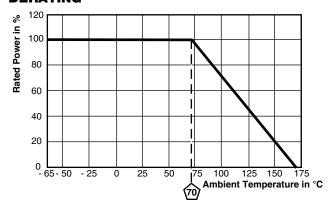
This Vishay product is protected by one or more United States and International patents.



### **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		



Vishay

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