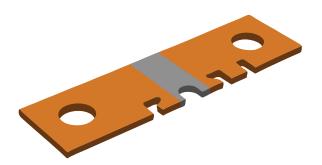


Power Metal Strip[®] Meter Shunt Resistor, Very Low Value (down to 0.00010 Ohms)



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.vishay.com/doc?99912



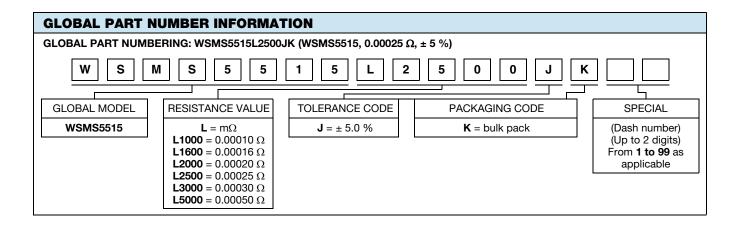
ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

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}			

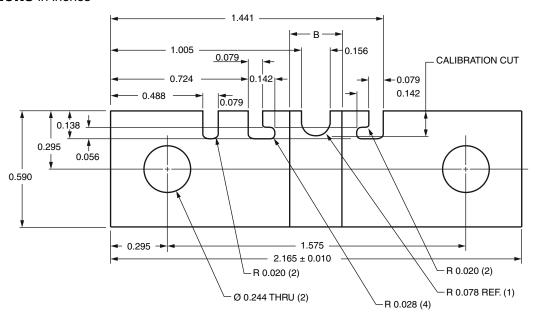


PATENT(S): www.vishay.com/patents

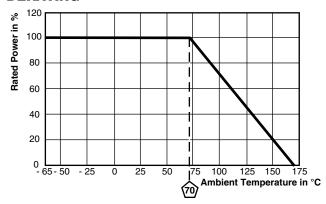
This Vishay product is protected by one or more United States and International patents.



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				



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Vishay

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Revision: 13-Jun-16 1 Document Number: 91000

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PF2512FKF7W0R033L CD2015FC-0.10-1% PR2512FKF7W0R004L RC1005F124CS RL73K3AR56JTDF RL7520WT-R001-F

RL7520WT-R009-G RL7520WT-R020-F RLP73N1ER43JTD LRC-LR2512LF-01-R820J WR06X104JGLJ TL2BR01F 65709-330 SP1R12J

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KRL1632E-C-R200-F-T1 Y14880R02000B9R RLP73M1ER051FTDF RLP73M2AR051FTDF RLP73M2AR075FTDF RLP73K2A1R0FTDF

RLP73M1JR051FTDF RLP73N1JR47FTDF SR731ERTTP5R10F SR731ERTTP100J SR731ERTTP6R80F SR731ERTTP4R70F

SR731ERTTP2R20F SR731ERTTP3R90F SR731ERTTP1R00F SR731ERTTP10R0F SR731ERTTP2R00F SR731ERTTP1R0J

SR731ERTTP3R9J SR731ERTTP8R2J SR731ERTTP2R0J SR731ERTTP4R7J SR731ERTTP9R1J SR731ERTTP1R0J