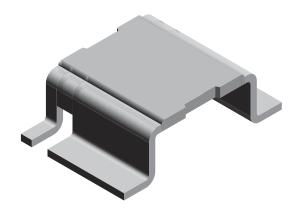


Power Metal Strip® Resistors, Low Value, High Power, Surface Mount, 4-Terminal



FEATURES

- 4-Terminal design allows for 1 % tolerance down to 0.0003 Ω
- High power to foot print size ratio
- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts
- Proprietary processing technique produces extremely low resistance values, down to 0.0005 Ω



AUTOMOTIVE

Available

- All welded construction
- Solid metal nickel-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified available (1)
- Compliant to RoHS Directive 2002/95/EC

Notes

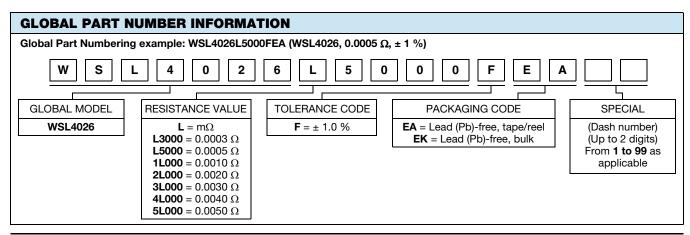
- ** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902
- (1) Flame retardance test may not be applicable to some resistor technologies..

STANDARD ELECTRICAL SPECIFICATIONS							
I GLOBAL LOLERANCE		RESISTANCE VALUES CURRENTLY AVAILABLE (2) Ω	WEIGHT (typical) g/1000 pieces				
WSL4026	4026	3.0	1.0	0.3m to 5m	0.3m, 0.5m, 1m, 2m, 3m, 4m, 5m	420	

Notes

- Power rating depends on the max. temperature at the solder point, component placement density and the substrate material.
- Part marking: Model, value, tolerance, date code.
- (2) Other values may be available, contact factory.

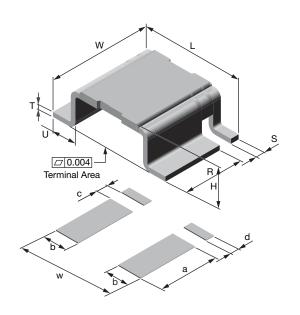
TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS			
Temperature coefficient	ppm/°C	± 75 over temperature of + 20 °C to + 60 °C			
Operating temperature range	°C	- 65 to + 170			
Maximum working voltage	V	(P x R) ^{1/2}			





DIMENSIONS

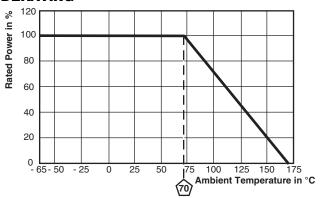
MODEL	DIMENSIONS in inches (millimeters)							
	L	W	Н	R	S	Т	U	
WSL4026	0.400 ± 0.008 (10.1 ± 0.2)	0.260 + 0.012/- 0.008 (6.6 + 0.3/- 0.2)	0.117 ± 0.008 (3.0 ± 0.2)	0.193 ± 0.004 (4.9 ± 0.1)	0.028 ± 0.004 (0.7 ± 0.1)	0.016 ± 0.002 (0.4 ± 0.05)	0.078 ± 0.004 (2.0 ± 0.1)	



MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)						
WIODEL	а	b	С	d	w		
WSL4026	0.220 (5.6)	0.096 (2.44)	0.035 (0.89)	0.035 (0.89)	0.420 (10.6)		

MODEL	RESISTANCE VALUE (mΩ)	ELEMENT MATERIAL	
	0.3	Mn-Cu	
	0.5	Mn-Cu	
	1.0	Mn-Cu	
WSL4026	2.0	Ni-Cr	
	3.0	Ni-Cr	
	4.0	Ni-Cr	
	5.0	Ni-Cr	

DERATING



PERFORMANCE						
TEST	CONDITIONS OF TEST	TEST LIMITS				
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.0005 Ω) ΔR				
Short time overload	$0.3~m\Omega,~0.5~m\Omega,~2~m\Omega$ and $3~m\Omega$ - $5~x$ rated power for $5~s$ 5 m Ω - $3~x$ rated power for $5~s$	± (0.5 % + 0.0005 Ω) ΔR				
Low temperature operation	- 65 °C for 45 min	± (0.5 % + 0.0005 Ω) ΔR				
High temperature exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR				
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± (0.5 % + 0.0005 Ω) ΔR				
Mechanical shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR				
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.0005 Ω) ΔR				
Load life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (1.0 % + 0.0005 Ω) ΔR				
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± (0.5 % + 0.0005 Ω) ΔR				
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± (0.5 % + 0.0005 Ω) ΔR				

PACKAGING							
MODEL	REEL						
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSL4026	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed Carrier Tape per EIA-481.



Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Revision: 02-Oct-12 Document Number: 91000



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