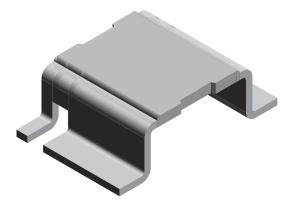
Vishay Dale



Power Metal Strip[®] Resistors, Very High Power (to 7 W), Low Value (Down to 0.0005 Ω), Surface Mount



FEATURES

- 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



AUTOMOTIVE

• Proprietary processing technique produces extremely low resistance values, down to $0.0005 \ \Omega$



- Specially selected and stabilized materials allow for high power rating (to 7 W)
- All welded construction
- Solid metal nickel-chrom 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

Note

⁽¹⁾ Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE (2) Ω	WEIGHT (typical) g/1000 pieces		
WSLP4026	4026	5.0	1.0, 5.0	2m	2m	420		
WSLP4026	4026	7.0	1.0, 5.0	0.5m to 1m	0.5m, 1m	420		

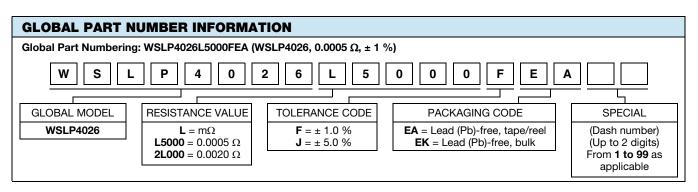
Notes

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}			



** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902



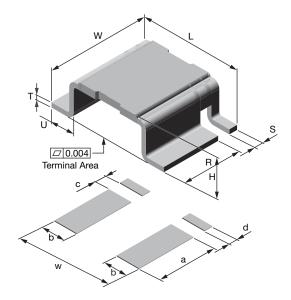
WSLP4026

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DIMENSIONS

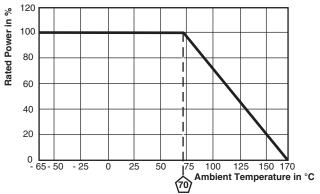
MODEL	DIMENSIONS in inches (millimeters)							
MODEL	L	w	н	R	S	т	U	
WSLP4026	0.400 ± 0.008 (10.1 ± 0.2)	0.260 + 0.012/- 0.008 (6.6 + 0.3/- 0.2)	0.117 ± 0.008 (3.0 ± 0.2)	0.193 ± 0.004 (4.9 ± 0.1)	0.028 ± 0.004 (0.7 ± 0.1)	0.016 ± 0.002 (0.4 ± 0.05)	0.078 ± 0.004 (2.0 ± 0.1)	



SOLDER PAD DIMENSIONS in inches (millimeters)

MODEL					
MODEL	а	b	с	d	w
WSLP4026	0.220 (5.6)	0.096 (2.44)	0.035 (0.89)	0.035 (0.89)	0.420 (10.6)

DERATING



MODEL	RESISTANCE VALUE (mΩ)	ELEMENT MATERIAL
WSLP4026	0.5	Mn-Cu
WSLP4026	1.0	Mn-Cu
WSLP4026	2.0	Ni-Cr

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>			
Short time overload	5 x rated power for 5 s	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>			
Low temperature operation	- 65 °C for 45 min	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>			
High temperature exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) Δ <i>R</i>			
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± (0.5 % + 0.0005 Ω) Δ <i>R</i>			
Mechanical shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.0005 Ω) Δ <i>R</i>			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.0005 Ω) Δ <i>R</i>			
Load life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (1.0 % + 0.0005 Ω) Δ <i>R</i>			
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) Δ <i>R</i>			

PACKAGING							
MODEL	REEL						
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSLP4026	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed carrier tape per EIA-481.



Vishay

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