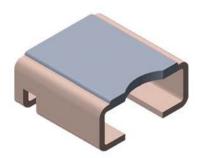
WSLP2726



Vishay Dale

Power Metal Strip[®] Resistors, Very High Power (to 7 W), Low Value (down to 0.0003 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



- Proprietary processing technique produces extremely low resistance values, down to 0.0003 Ω
- HALOGEN FREE GREEN (5-2008)

COMPLIANT

- Specially selected and stabilized materials allow for high power rating (to 7 W)
- 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⁾
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

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

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODELSIZEPOWER RATING POWER RATING P70 °C WTOLERANC ± %		TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE (2) Ω	WEIGHT (typical) g/1000 pieces			
WSLP2726	2726	5.0	1.0, 5.0	2m to 4m	2m, 3m, 4m	420		
WSLP2726	2726	7.0	1.0, 5.0	0.3m to 1m	0.3m, 0.5m, 0.7m, 1m	420		

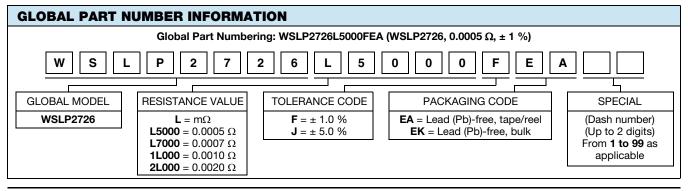
Notes

· 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	\pm 75 for 0.5 m Ω to 4 m $\Omega,$ \pm 110 for 0.3 m Ω			
Element TCR	ppm/°C	< 20			
Operating temperature range	°C	-65 to +170			
Maximum working voltage	V	$(P \times R)^{1/2}$			



Revision: 07-Aug-15

1 For technical questions, contact: <u>ww2bresistors@vishay.com</u> Document Number: 30179

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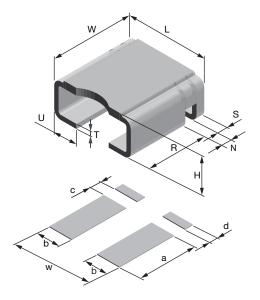


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DIMENSIONS

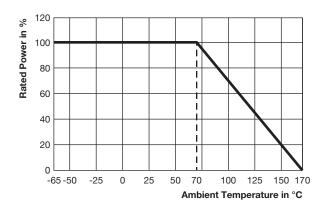
MODEL	DIMENSIONS in inches (millimeters)								
	L	W	н	R (REF.)	s	т	U	Ν	
WSLP2726	0.272 ± 0.008 (6.9 ± 0.2)	0.260 + 0.012/- 0.008 (6.6 + 0.3/- 0.2)	Please see table below	0.198 (5.0)	0.028 ± 0.004 (0.7 ± 0.1)	0.016 ± 0.002 (0.4 ± 0.05)	0.078 ± 0.004 (2.0 ± 0.1)	0.039 ± 0.006 (0.99 ± 0.15)	



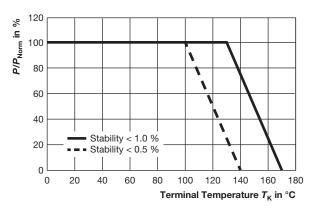
MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)						
MODEL	а	b	с	d	w		
WSLP2726	0.220 (5.6)	0.096 (2.44)	0.035 (0.89)	0.035 (0.89)	0.290 (7.4)		

MODEL	RESISTANCE VALUE (mΩ)	ELEMENT MATERIAL	HEIGHT H
WSLP2726	0.3	Mn-Cu	0.141 ± 0.008 (3.58 ± 0.2)
WSLP2726	0.5	Mn-Cu	0.116 ± 0.008 (2.95 ± 0.2)
WSLP2726	0.7	Mn-Cu	0.111 ± 0.008 (2.82 ± 0.2)
WSLP2726	1.0	Mn-Cu	0.1055 ± 0.008 (2.68 ± 0.2)
WSLP2726	2.0	Ni-Cr	0.114 ± 0.008 (2.9 ± 0.2)
WSLP2726	3.0	Ni-Cr	0.108 ± 0.008 (2.74 ± 0.2)
WSLP2726	4.0	Ni-Cr	0.1046± 0.008 (2.66 ± 0.2)

DERATING - AMBIENT TEMPERATURE



DERATING - TERMINAL TEMPERATURE



Example: WSLP2726 0.0005 Ω, 0.001 Ω

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

PACKAGING							
MODEL		REEL	REEL				
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSLP2726	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed carrier tape per EIA-481.



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