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Vishay/Dale WSL27261L000FEB

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Datasheet of WSL27261L000FEB - RES SMD 0.001 OHM 1% 3W 2726

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

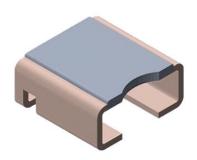


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WSL2726

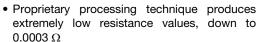
Vishay Dale

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





AUTOMOTIVE GRADE

- · 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 (1)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

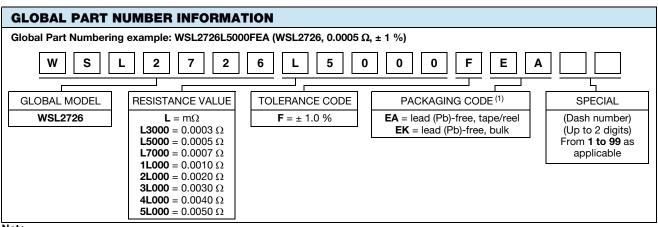
Note

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

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	P _{70 °C} TOLERANCE VALUE RANGE CURRENTLY AVAILAB		RESISTANCE VALUES CURRENTLY AVAILABLE $^{(1)}$ Ω	WEIGHT (typical) g/1000 pieces		
WSL2726	2726	3.0	1.0	0.3m to 5m	0.3m, 0.5m, 0.7m, 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.
- (1) Other values may be available, contact factory.



Note

(1) Packaging code: EB (lead (Pb)-free) and TB (tin / lead) are non-standard packaging codes designating 1000 piece reels. These non-standard packaging codes are identical to our standard EA (lead (Pb)-free) and TA (tin / lead), except that they have a package quantity of 1000 pieces.

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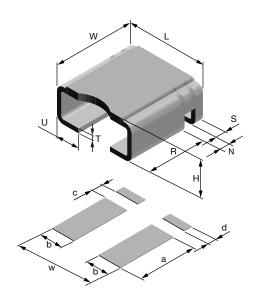
TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	RESISTOR CHARACTERISTICS				
Component temperature coefficient (including terminal) (1)	ppm/°C	\pm 75 for 0.5 m Ω to 5 m $\Omega,$ \pm 110 for 0.3 m Ω				
Element TCR (2)	ppm/°C	< 20				
Operating temperature range	°C	-65 to +170				
Maximum working voltage (3)	V	(P x R) ^{1/2}				

Notes

- (1) Component TCR total TCR that includes the TCR effects of the resistor element and the copper terminal.
- (2) Element TCR only applies to the alloy used for the resistor element; refer to item 1 in the construction illustration on the following page.
- (3) Maximum working voltage the WSL is not voltage sensitive, but is limited by power / energy dissipation and is also not ESD sensitive.

DIMENSIONS

MODEL	DIMENSIONS in inches (millimeters)							
	L	w	н	R (REF.)	s	Т	υ	N
WSL2726	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)						
WODEL	а	b	С	d	w		
WSL2726	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
	0.3	Mn-Cu	0.141 ± 0.008 (3.58 ± 0.2)
	0.5	Mn-Cu	0.116 ± 0.008 (2.95 ± 0.2)
	0.7	Mn-Cu	0.111 ± 0.008 (2.82 ± 0.2)
WSL2726	1.0	Mn-Cu	0.1055 ± 0.008 (2.68 ± 0.2)
W3L2726	2.0	Ni-Cr	0.114 ± 0.008 (2.9 ± 0.2)
	3.0	Ni-Cr	0.110 ± 0.008 (2.79 ± 0.2)
	4.0	Ni-Cr	0.110 ± 0.008 (2.79 ± 0.2)
	5.0	Ni-Cr	0.110 ± 0.008 (2.79 ± 0.2)

Note

3D models available: www.vishay.com/doc?30308.

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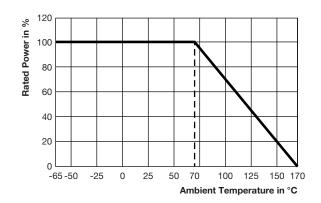


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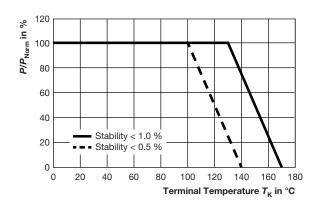
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DERATING - AMBIENT TEMPERATURE



DERATING - TERMINAL TEMPERATURE



Example: WSL2726 0.0005 $\Omega,$ 0.001 Ω

PERFORMANCE						
TEST	CONDITIONS OF TEST	TEST LIMITS				
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 0.5 %				
Short time overload	0.3 m Ω , 0.5 m Ω , 2 m Ω and 3 m Ω - 5x rated power for 5 s 4 m Ω and 5 m Ω - 3x rated power for 5 s	± 0.5 %				
Low temperature operation	-65 °C for 45 min	± 0.5 %				
High temperature exposure	1000 h at +170 °C	± 1.0 %				
Bias humidity	+85 °C, 85 % RH, 10 % bias, 1000 h	± 0.5 %				
Mechanical shock	100 g's for 6 ms, 5 pulses	± 0.5 %				
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 %				
Load life	1000 h at +70 °C, 1.5 h "ON", 0.5 h "OFF"	± 1.0 %				
Resistance to solder heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 %				
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± 0.5 %				

PACKAGING							
MODEL	REEL						
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSL2726	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed carrier tape per EIA-481.



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