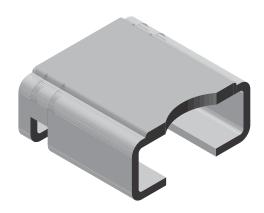
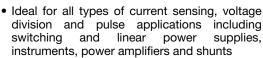


Power Metal Strip® Resistors, Low Value, High Power, Surface Mount, 4-Terminal



FEATURES

- 4-Terminal design allows for 1 % tolerance down to 0.0003 Ω
- High power to foot print size ratio





AUTOMOTIVE

RoHS COMPLIANT GREEN

- Proprietary processing technique produces extremely low resistance values, down to 0.0005 Ω
- 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

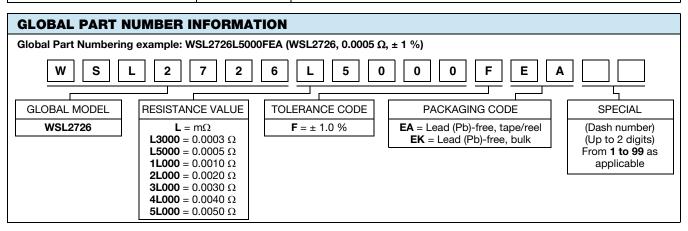
- ** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902
- (1) Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS							
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	
WSL2726	2726	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}			

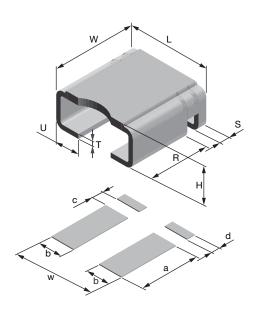


Revision: 07-Sep-11 Document Number: 30131



DIMENSIONS

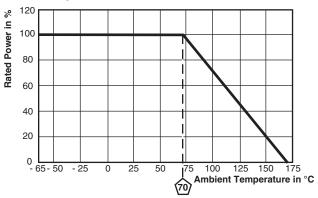
MODEL	DIMENSIONS in inches (millimeters)							
	L	W	Н	R	s	Т	U	
WSL2726	0.272 ± 0.008 (6.9 ± 0.2)	0.260 + 0.012/- 0.008 (6.6 + 0.3/- 0.2)	0.117 ± 0.008 (3.0 ± 0.2)	0.193 ± 0.004 (4.9 ± 0.1)	0.028 ± 0.004 (0.7 ± 0.1)	0.016 ± 0.002 (0.4 ± 0.05)	0.078 ± 0.004 (2.0 ± 0.1)	



MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)						
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 $(m\Omega)$	ELEMENT MATERIAL	
	0.3	Mn-Cu	
	0.5	Mn-Cu	
	1.0	Mn-Cu	
WSL2726	2.0	Ni-Cr Ni-Cr	
	3.0		
	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	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$				
Short time overload	$0.3~m\Omega,0.5~m\Omega,2~m\Omega$ and $3~m\Omega$ - $5~x$ rated power for $5~s$ 4 $m\Omega$ and $5~m\Omega$ - $3~x$ 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	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$				
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	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$				
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			
WSL2726	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed Carrier Tape per EIA-481.



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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.