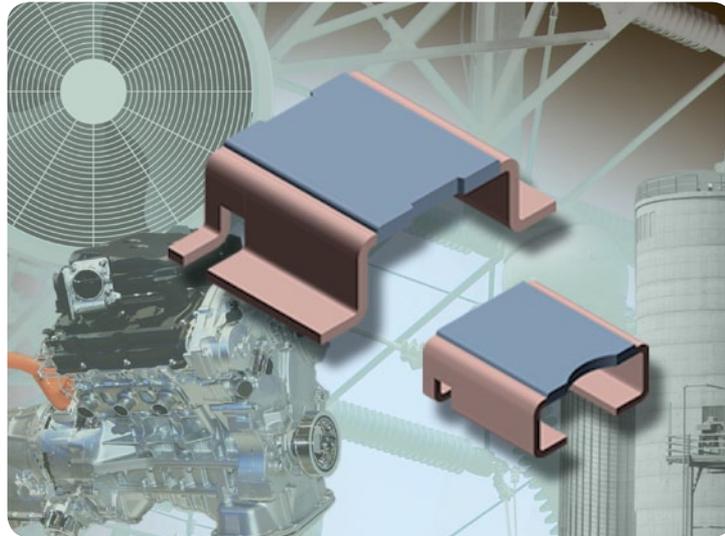




POWER METAL STRIP® RESISTORS

WSLP2726, WSLP4026

High Power, 5 W to 7 W, Four-Terminal Surface-Mount Power Metal Strip® Resistors



KEY BENEFITS

- Four-terminal design allows for stable resistance tolerances to 1 %
- 5.0 W to 7.0 W power capability
- Very low resistance values (0.5 mΩ to 2.0 mΩ)

APPLICATIONS

Automotive:

- Electronic controls such as engine controls, climate controls and anti-lock brakes
- Brushless DC motor controls for electronic power steering, electric water pumps and oil pumps, air conditioning, and more
- Electric and hybrid controls (battery management)

Industrial:

- Oil/gas well drilling (down hole test/measurement equipment)
- Air-conditioning/heat-pump (inverter control)

Consumer:

- Air-conditioning/heat-pump (inverter control)
- White-goods (inverter control)

RESOURCES

- Datasheet: WSLP2726 - <http://www.vishay.com/doc?30179>
- Datasheet: WSLP4026 - <http://www.vishay.com/doc?30180>
- For technical questions contact ww2bresistors@vishay.com

Resistors - 4-Terminal Design for Stable Resistance

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



POWER METAL STRIP® RESISTORS

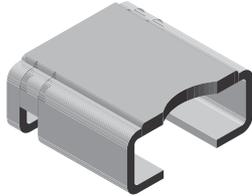
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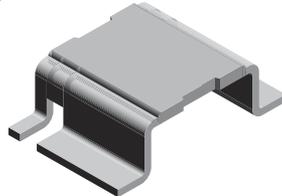
Resistors - 4-Terminal Design for Stable Resistance

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WSLP2726



WSLP4026



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 0.0005 Ω
- 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⁾
- Compliant to RoHS Directive 2002/95/EC

AUTOMOTIVE GRADE Available



RoHS COMPLIANT GREEN (S-2008)**

Note

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

WSLP2726

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING $P_{70\text{ }^\circ\text{C}}$ W	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	2m	420
WSLP2726	2726	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	$(P \times R)^{1/2}$

WSLP4026

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Revision 26-Jan-11