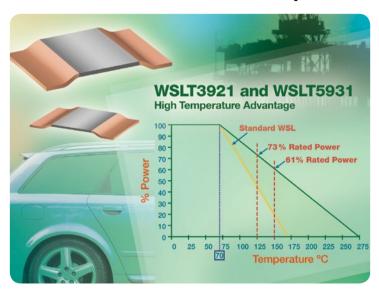


POWER METAL STRIP® RESISTORS



High-Temperature (+ 275 °C) 3 W and 5 W Surface-Mount Power Metal Strip® Resistors



KEY BENEFITS

- Ideal for use in harsh, high temperature environments (to + 275 °C)
- Enables use in high-temperature environments with less derating required: for example, 61 % rated power at 150 °C
- Operating temperature range of 65 °C to + 275 °C
- Very low resistance values: down to 0.001 Ω
- Low TCR: < 20 ppm/°C
- Very low inductance: < 5 ηH
- Excellent frequency response to 50 MHz
- Low thermal EMF: < 3 μV/°C
- Lead (Pb)-free construction is RoHS-compliant

APPLICATIONS

- Automotive electronic controls: engine controls, audio electronics, climate controls, anti-lock brakes, etc.
- Oil/gas well drilling: down-hole test and measurement equipment

RESOURCES

- Datasheet: WSLT3921/5931 http://www.vishay.com/doc?30136
- For technical questions contact <u>ww2bresistors@vishay.com</u>

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





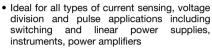
POWER METAL STRIP® RESISTORS



Power Metal Strip® Resistors, High Temperature (275 °C), Low Value (Down to 0.001 Ω), Surface Mount



FEATURES

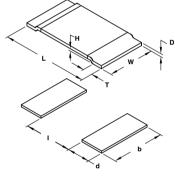




RoHS

- · Proprietary processing technique produces extremely low resistance values, down to
- Specially selected and stabilized materials allow for high temperature (to + 275 °C)
 - <u>GREEN</u>
- All welded construction
- · Solid metal iron-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 ηH)
- Low thermal EMF (< 3 µV/°C)
- AEC-Q200 qualified available (1)
- Compliant to RoHS Directive 2002/95/EC

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



MODEL	DIMENSIONS in inches (millimeters)					
	L	w	Н	Т		
WSLT3921		0.205 ± 0.010 (5.20 ± 0.254)				
WSLT5931		0.305 ± 0.010 (7.75 ± 0.254)				

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE %	$\begin{array}{c} \textbf{RESISTANCE VALUE} \\ \textbf{RANGE} \\ \Omega \end{array}$	RESISTANCE VALUES CURRENTLY AVAILABLE $^{(2)}$ Ω	WEIGHT (typical) g/1000 pieces		
WSLT3921	3921	3.0	1.0, 5.0	0.5 m to 4 m	0.5 m, 1 m, 2 m, 3 m, 4 m	281		
WSLT5931	5931	5.0	1.0, 5.0	0.3 m to 3 m	0.3 m, 0.5 m, 1 m, 2 m, 3 m	398		

DIMENSIONS

- · Part marking: No part marking on these parts.
- (2) Other values may be available, contact factory.

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	\pm 175 for 0.3 m Ω and 0.5 m Ω , \pm 75 for 1 m Ω to 4 m Ω		
Operating temperature range	°C	- 65 to + 275		
Maximum working voltage	V	(P x R) ^{1/2}		

