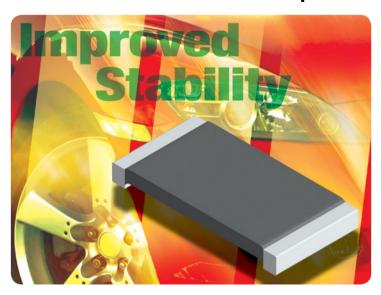


POWER METAL STRIP® RESISTOR

WSLS2512xxxxxxGxx

Improved Stability (0.25 %), Low Value (0.01 Ω to 0.1 Ω), Surface-Mount Power Metal Strip® Resistor



KEY BENEFITS

- Current sensing in high-temperature (+ 125 °C) applications
- Improved resistance stability during operation (resistance change of 0.25 % through a 2000-hour workload)
- Very low resistance values: 10 m Ω to 100 m Ω resistance
- Durable with all-welded construction and a solid metal nickel-chrome alloy resistive element with low TCR (< 20 ppm/°C)

APPLICATIONS

- Automotive
- Industrial

RESOURCES

- Datasheet: WSLS2512xxxxxxGxx http://www.vishay.com/doc?30123
- 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® RESISTOR





e3

RoHS

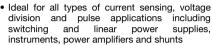
GREEN

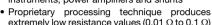
Improved Stability (0.25 %), Low Value (0.01 Ω to 0.1 Ω), Surface-Mount Power Metal Strip® Resistor

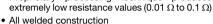


FEATURES

- Current sensing in high-temperature (+ 125 °C)
- Greater stability with maximum resistance change of 0.25 % or 0.5 % through 2000 h workload



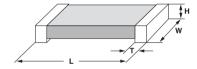


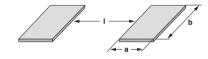


- Solid metal nickel-chrome resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 neH to 2 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified (1)
- Compliant to RoHS Directive 2002/95/EC

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

DIMENSIONS in inches (millimeters)





MODEL		DIMEN	ISIONS	SOLDER PAD DIMENSIONS			
	L	w	Н	Т	а	b	I
WSLS2512	0.250 ± 0.010 (6.35 ± 0.254)	0.125 ± 0.010 (3.18 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.030 ± 0.010 (0.762 ± 0.254)	0.065 (1.65)	0.145 (3.68)	0.160 (4.06)

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces			
WSLS2512	2512	1.0	0.5, 1.0, 5.0	0.01 to 0.1	63.6			

Note

• Part marking: Value, RTC/stability code.

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS			
Temperature coefficient	ppm/°C	± 75			
Operating temperature range	°C	- 65 to + 170			
Maximum working voltage	V	(P x R) ^{1/2}			

