

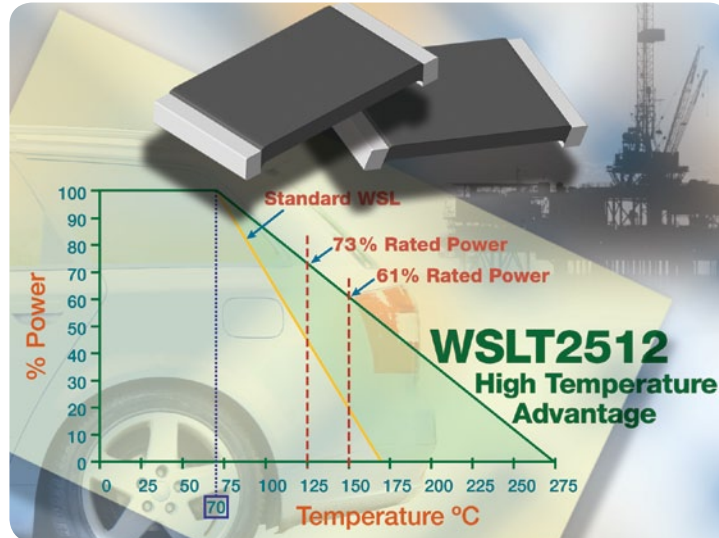
# POWER METAL STRIP® RESISTOR

## WSLT2512



Resistors - Provides High-Temperature Performance

### High Temperature (+ 275 °C), Surface-Mount, Power Metal Strip® Resistor



#### KEY BENEFITS

- Provides high temperature (+ 275 °C) performance for use in harsh environments
- Enables use in high-temperature environments with less derating required; for example, 61 % rated power at 150 °C
- Very low resistance values: 10 mΩ to 500 mΩ
- Low TCR resistance element (< 20 ppm/°C) results in accurate current-sensing, allowing the use of lower cost ICs
- Operating temperature range of - 65 °C to + 275 °C
- Lead (Pb)-free construction is RoHS-compliant

#### APPLICATIONS

- Automotive
- Industrial

#### RESOURCES

- Datasheet: WSLT2512 - <http://www.vishay.com/doc?30121>
- For technical questions contact [ww2bresistors@vishay.com](mailto:ww2bresistors@vishay.com)

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



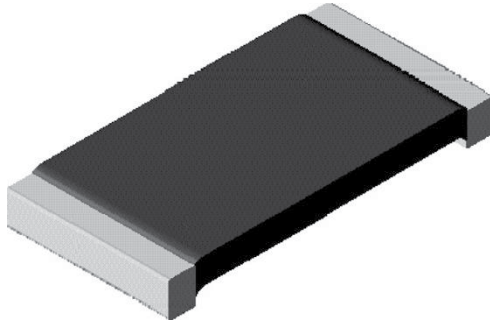
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#### FEATURES

- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Specially selected and stabilized materials allow for high temperature derating (to + 275 °C)
- Solid metal nickel-chrome alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 nH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- Compliant to RoHS Directive 2002/95/EC
- AEC-Q200 qualified available <sup>(1)</sup>

AUTOMOTIVE GRADE Available


**RoHS COMPLIANT**  
**GREEN**  
 (5-2009)\*\*

#### Note

<sup>(1)</sup> Flame retardance test may not be applicable to some resistor technologies.

#### Note

\*\* Please see document "Vishay Material Category Policy": [www.vishay.com/doc?99902](http://www.vishay.com/doc?99902)

#### STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^{\circ}\text{C}}$ W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WSLT2512	2512	1.0	0.5, 1.0	0.01 to 0.50	63.6

#### Note

- Part marking: DALE, value, tolerance code.

#### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature coefficient	ppm/°C	± 75
Inductance	nH	< 5
Operating temperature range	°C	- 65 to + 275
Maximum continuous current	A	$(P/R)^{1/2}$

#### GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: WSLT2512R0100FEA

W	S	L	T	2	5	1	2	R	0	1	0	0	F	E	A		
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Revision 09-Nov-11

GLOBAL MODEL <b>WSLT2512</b>	RESISTANCE VALUE <b>R</b> = Decimal <b>R0100</b> = 0.01 Ω	TOLERANCE CODE <b>D</b> = ± 0.5 % <b>F</b> = ± 1.0 %	PACKAGING CODE <b>EA</b> = Lead (Pb)-free, tape/reel <b>EK</b> = Lead (Pb)-free, bulk	SPECIAL Reserved for future specials
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