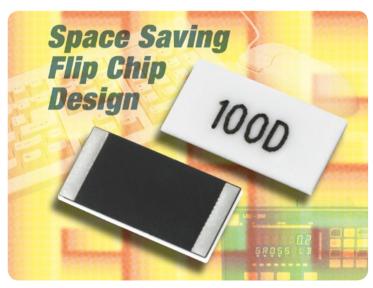


# POWER METAL STRIP® RESISTOR WSL...E

# Power Metal Strip® Flip Chip (Extended Range)



## **KEY BENEFITS**

- Very low TCR of 15 ppm/°C
- Long-term stability ( $\pm$  0.5 % + 0.01  $\Omega$ )
- Fillet-less flip chip technology for space savings (reduction of mounting occupation area)
- SMD alternative for low power, leaded wirewound resistors
- Good overload and pulse handling capability (5 times rated power for 5 seconds)
- No noise, no voltage coefficient

## **APPLICATIONS**

Base station controllers, DC/DC converters, scales, test equipment,
 PCMCIA, VXO, TCXO, digital and analog video processing, motor controllers

## **RESOURCES**

- Datasheet: WSL...E <a href="http://www.vishay.com/doc?20033">http://www.vishay.com/doc?20033</a>
- For technical questions contact <u>ww2bresistors@vishay.com</u>

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

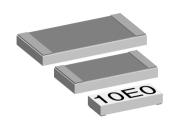




## POWER METAL STRIP® RESISTOR



## Power Metal Strip® Flip Chip (Extended Range)



### **FEATURES**

• SMD alternative for low power leaded wirewound resistors



RoHS

COMPLIANT

- · Excellent stability in different environmental conditions (< 0.5 % change in resistance)
- Superior overload and pulse handling capability as compared to thin film (as much as 2 x better)
- Low TCR, down to ± 15 ppm/K
- Low noise: < 0.01 μV<sub>RMS</sub>/V
- Very low inductance: < 0.08 μH
- Voltage coefficient: < 0.00001 %/V (< 0.1 ppm/V)</li>
- Compliant to RoHS Directive 2002/95/EC

## GREEN (5-2008)<sup>3</sup> Available

\* Pb containing terminations are not RoHS compliant, exemptions may apply
\*\* Please see document "Vishay Material Category Policy": <a href="https://www.vishay.com/doc?99902">www.vishay.com/doc?99902</a>

STANDAR	TANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL	SIZE	POWER RATING P <sub>70 °C</sub>	LIMITING ELEMENT	TEMPERATURE COEFFICIENT	RESISTANCE V	ALUE RANGE <sup>(2)</sup> 2	E-SERIES		
MODEL		w	VOLTAGE (1) V	± ppm/K	Tol. ± 0.5 %	Tol. ± 1.0 %			
WSL1506E	1506	0.25	63	15, 25	0.5 to 10K	0.5 to 10K	96		
WSL2010E	2010	0.5	100	15, 25	0.5 to 10K	0.5 to 10K	96		
WSL2512E	2512	1.0	100	15, 25	0.5 to 10K	0.5 to 10K	96		

- Ask about further value ranges, tighter tolerances and TCR's.
- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material. 4-digit marking, according to MIL-PRF-55342 (except as noted in Ordering Information table), on top side.
- Rated voltage:  $\sqrt{P \times R}$ .
- Contact factory using e-mail address at bottom of this page for resistance values available between 0.5 to 10 for 1506 and 0.5 to 100 for 2010 and 2512.

TECHNICAL SPECIFICATIONS								
PARAMETER	UNIT	WSL1506E	WSL2010E	WSL2512E				
Rated dissipation at 70 °C	W	0.25	0.5	1.0				
Insulation voltage (1 min)	V <sub>DC/AC</sub> peak	200	200	200				
Thermal resistance	K/W	≤ 220 <sup>(3)</sup>	≤ 88 <sup>(3)</sup>	≤ 65 <sup>(3)</sup>				
Insulation resistance	ΜΩ	> 10 <sup>6</sup>						
Operating temperature range °C - 55 to + 150								
Weight/1000 pieces	g	12	25	35				

### Note

Depending on solder pad dimensions.

