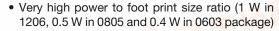
## Vionalee供应商



# Power Metal Strip® Resistors, Very High Power (to 1 W) Low Value (down to 0.001 $\Omega$ ), Surface Mount



#### **FEATURES**





 Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts



 Proprietary processing technique produces <u>GREEN</u> extremely low resistance values (down to  $0.001 \Omega$ )

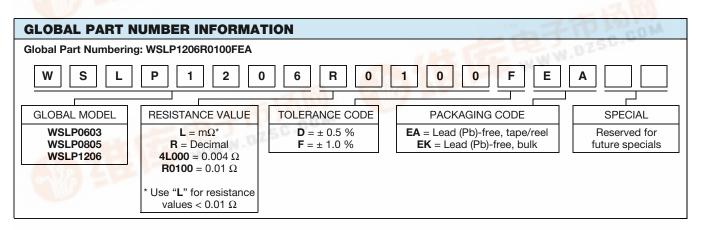
COMPLIANT

(5-2008)

- 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
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)</li>
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING  P <sub>70°C</sub> W	RESISTANCE	WEIGHT (typical)			
	1 Jan		Tol. ± 0.5 %	Tol. ± 1.0 %	g/1000 pieces		
WSLP0603	0603	0.4	0.015 to 0.1	0.01 to 0.1	1.9		
WSLP0805	0805	0.5	0.01 to 0.05	0.01 to 0.05	4.8		
WSLP1206	1206	1.0	0.01 to 0.05	0.001 to 0.05	16.2		

TECHNICAL SPECIFICATIONS				
PARAMETER	IETER UNIT RESISTOR CHARACTERISTICS			
Temperature coefficient	ppm/°C	$\pm$ 275 for 1 mΩ to 2.9 mΩ, $\pm$ 150 for 3 mΩ to 4.9 mΩ $\pm$ 110 for 5 mΩ to 6.9 mΩ, $\pm$ 75 for 7 mΩ to 0.1 mΩ		
Operating temperature range	°C	- 65 to + 170		
Maximum workin voltage	V	(P x R) <sup>1/2</sup>		







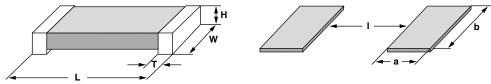
Document Number: 30122 Revision: 12-Aug-10



# 查询"WSLP"供应商 Power Metal Strip® Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount

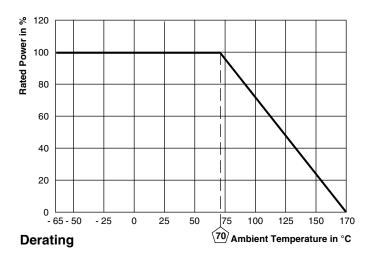
Vishay Dale

#### **DIMENSIONS**



MODEL	RESISTANCE RANGE	DIMENSIONS in inches (millimeters)				SOLDER PAD DIMENSIONS in inches (millimeters)		
	<b>(</b> Ω <b>)</b>	L	W	Н	Т	а	b	_
WSLP0603	0.01 to 0.1	$0.060 \pm 0.010$ (1.52 ± 0.254)	$0.030 \pm 0.010$ (0.76 ± 0.254)	$0.013 \pm 0.010$ $(0.330 \pm 0.254)$	$0.015 \pm 0.010$ (0.381 ± 0.254)	0.040 (1.02)	0.040 (1.02)	0.020 (0.50)
WSLP0805	0.01 to 0.05	$0.080 \pm 0.010$ (2.03 ± 0.254)	0.050 ± 0.010 (1.27 ± 0.254)	$0.013 \pm 0.010$ (0.330 ± 0.254)	0.015 ± 0.010 (0.381 ± 0.254)	0.040 (1.02)	0.050 (1.27)	0.020 (0.50)
	0.001 to 0.0019				0.041 ± 0.010 (1.04 ± 0.254)			
WSLP1206	0.002 to 0.0059	$0.126 \pm 0.010$ (3.20 ± 0.254)	$0.063 \pm 0.010$ (1.60 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.062 (1.57)	0.070 (1.78)	0.030 (0.76)
	0.006 to 0.075				$0.020 \pm 0.010$ $(0.508 \pm 0.254)$			

#### **DERATING**



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
Low temperature operation	- 65 °C for 45 min	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
High temperature exposure	1000 h at + 170 °C	$\pm (1.0 \% + 0.0005 \Omega) \Delta R$			
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
Mechanical shock	100 g's for 6 ms, 5 pulses	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
Load life	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	$\pm (1.0 \% + 0.0005 \Omega) \Delta R$			
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$			

PACKAGING						
MODEL	REEL					
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSLP0603	8 mm/punched paper	178 mm/7"	5000	EA		
WSLP0805	8 mm/punched paper	178 mm/7"	5000	EA		
WSLP1206	8 mm/embossed plastic	178 mm/7"	4000	EA		

#### Note

<sup>•</sup> Embossed carrier tape per EIA-481-2.



Vishay

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