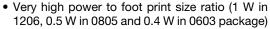
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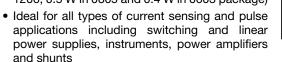


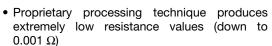
Power Metal Strip[®] Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount



FEATURES









AUTOMOTIVE GRADE

Available

RoHS COMPLIANT

COMPLIANT GREEN

• All welded construction

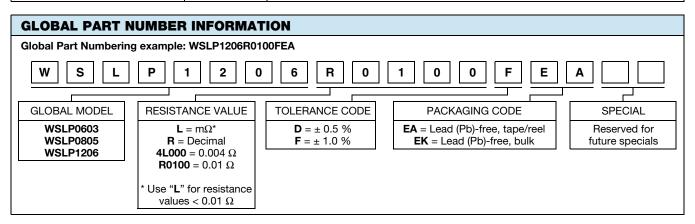
- Solid metal nickel-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified available (1)
- Compliant to RoHS Directive 2002/95/EC

Note

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

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	RESISTANCE	WEIGHT (typical)		
WIODEL			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 UNIT RESISTOR CHARACTERISTICS				
Temperature coefficient	ppm/°C	\pm 275 for 1 m Ω to 2.9 m Ω , \pm 150 for 3 m Ω to 4.9 m Ω \pm 110 for 5 m Ω to 6.9 m Ω , \pm 75 for 7 m Ω to 0.1 Ω		
Operating temperature range	°C	- 65 to + 170		
Maximum workin voltage	V	(P x R) ^{1/2}		



^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

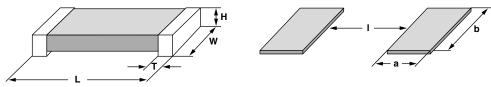
Document Number: 30122 Revision: 15-Dec-10



Power Metal Strip® Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount

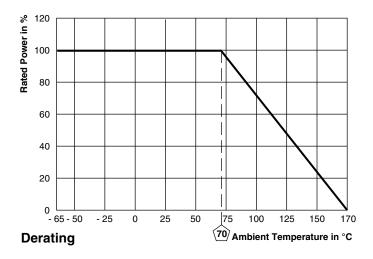
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DIMENSIONS



MODEL	RESISTANCE RANGE (Ω)	DIMENSIONS in inches (millimeters)				SOLDER PAD DIMENSIONS in inches (millimeters)		
		L	W	Н	Т	а	b	I
WSLP0603	0.01 to 0.1	0.060 ± 0.010 (1.52 ± 0.254)	0.030 ± 0.010 (0.76 ± 0.254)	0.013 ± 0.010 (0.330 ± 0.254)	0.015 ± 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 ± 0.010 (2.03 ± 0.254)	0.050 ± 0.010 (1.27 ± 0.254)	0.013 ± 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	0 126 + 0 010	0.063 ± 0.010 (1.60 ± 0.254)	, , , , , , , , , , , , , , , , , , ,	0.041 ± 0.010 (1.04 ± 0.254)			
	0.002 to 0.0059				0.025 ± 0.010 (0.635 ± 0.254)	0.062 (1.57)	0.070 (1.78)	0.030 (0.76)
	0.006 to 0.050				0.020 ± 0.010 (0.508 ± 0.254)			

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.0005 Ω) ΔR			
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					
	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

• Embossed Carrier Tape per EIA-481.

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