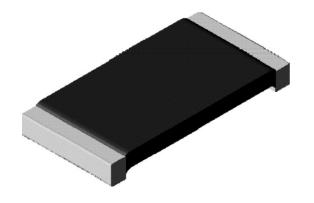
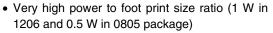
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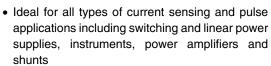
Power Metal Strip[®] Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount



FEATURES





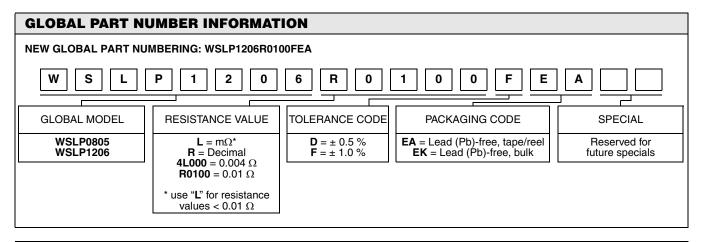




- Proprietary processing technique produces extremely low resistance values (down to 0.001 Ω)
- All welded construction
- Solid metal Nickel-Chrome or Manganese-Copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING P _{70 °C} W	RESISTANCE RANGE Ω		WEIGHT (typical)
		± 0.5 %	± 1.0 %	g/1000 pieces
WSLP0805	0.5	0.01 to 0.05	0.01 to 0.05	4.8
WSLP1206	1.0	0.006 to 0.05	0.001 to 0.05	16.2

TECHNICAL SPECIFICATIONS			
PARAMETER UNIT WSLP RESISTOR CHARACTERISTICS		WSLP 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 50 m Ω	
Operating Temperature Range	°C	- 65 to + 170	
Maximum Working Voltage	V	$(P \times R)^{1/2}$	



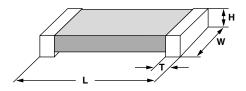
For technical questions, contact: ww2bresistors@vishay.com
Document Number: 30122
Revision: 18-Nov-08

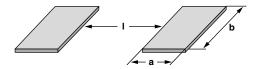


Power Metal Strip® Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount

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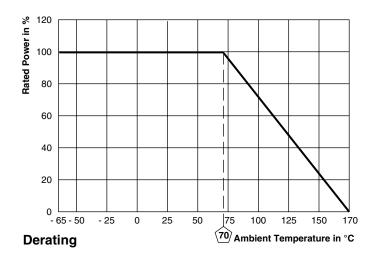
DIMENSIONS





MODEL	DIMENSIONS in inches [millimeters]			
INIODEL	L	W	Н	T
WSLP0805	0.080 ± 0.010	0.050 ± 0.010	0.013 ± 0.010	0.015 ± 0.010
	$[2.03 \pm 0.254]$	$[1.27 \pm 0.254]$	$[0.330 \pm 0.254]$	[0.381 ± 0.254]
WSLP1206	0126 ± 0.010	0.063 ± 0.010	0.025 ± 0.010	0.020 ± 0.010
	$[3.20 \pm 0.254]$	$[1.60 \pm 0.254]$	$[0.635 \pm 0.254]$	$[0.508 \pm 0.254]$

MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]			
WODEL	а	b	I	
WSLP0805	0.040	0.050	0.020	
	[1.02]	[1.27]	[0.50]	
WSLP1206	0.062	0.070	0.030	
	[1.57]	[1.78]	[0.76]	



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	± (1.0 % + 0.0005 Ω) ΔR	
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 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"	± (1.0 % + 0.0005 Ω) ΔR	
Resistance to Solder Heat	+ 260 °C Solder, 10 - 12 s dwell, 25 mm/s emergence	± (0.5 % + 0.0005 Ω) ΔR	
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± (0.5 % + 0.0005 Ω) ΔR	

PACKAGING				
MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
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-481-2



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