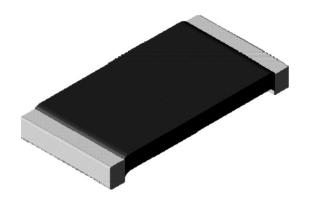
Vishay Dale



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



FEATURES

- Very high power to foot print size ratio (1 W in 1206 package)
- Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts



(5-2008)

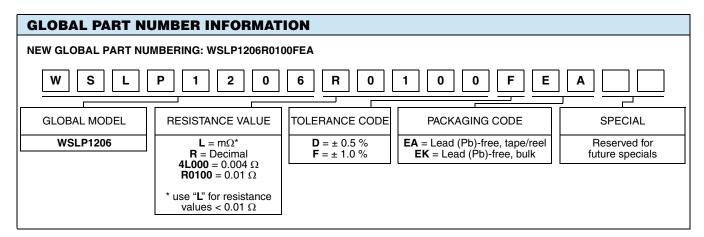
- Proprietary processing technique produces extremely low resistance values (down to 0.001Ω)
- · All welded construction
- Solid metal Nickel-Chrome or Manganese-Copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- Compliant to RoHS directive 2002/95/EC

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

TECHNICAL SPECIFICATIONS			
PARAMETER UNIT WSLP 1206		WSLP 1206	
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	$(P \times R)^{1/2}$	

Note

· Part Marking: Value



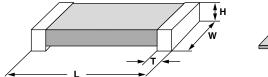
^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

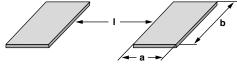


Power Metal Strip[®] Resistors, Very High Power (1 W) Low Value (down to 0.001 Ω), Surface Mount

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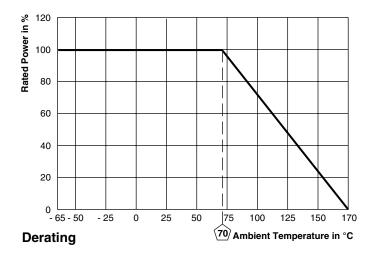
DIMENSIONS





MODEL	RESISTANCE RANGE (Ω)	DIMENSIONS in inches [millimeters]			
		L	W	Н	Т
WSLP1206	0.001 to 0.0019	0.126 ± 0.010 [3.2 ± 0.254]	0.063 ± 0.010 [1.6 ± 0.254]	0.025 ± 0.010 [0.635 ± 0.254]	0.041 ± 0.010 [1.04 ± 0.254]
	0.002 to 0.0059	0.126 ± 0.010 [3.2 ± 0.254]	0.063 ± 0.010 [1.6 ± 0.254]	0.025 ± 0.010 [0.635 ± 0.254]	0.025 ± 0.010 [0.635 ± 0.254]
	0.006 to 0.050	0.126 ± 0.010 [3.2 ± 0.254]	0.063 ± 0.010 [1.6 ± 0.254]	0.025 ± 0.010 [0.635 ± 0.254]	0.020 ± 0.010 [0.508 ± 0.254]

MODEL	RESISTANCE RANGE (Ω)	SOLDER PAD DIMENSIONS in inches [millimeters]		
		а	b	I
WSLP1206	0.001 to 0.05	0.062 [1.57]	0.070 [1.78]	0.030 [0.76]



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	± (0.5 % + 0.0005 Ω) ΔR		
High Temperature Exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR		
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	± (0.5 % + 0.0005 Ω) ΔR		
Mechanical Shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR		
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.0005 Ω) ΔR		
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 s to 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
WSLP1206	8 mm/Embossed Plastic	178 mm/7"	4000	EA

Note

[•] Embossed Carrier Tape per EIA-481-2



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