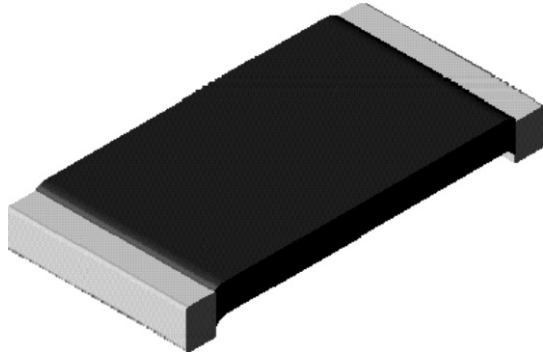


## Power Metal Strip<sup>®</sup> Resistors, Very High Power (to 1 W) Low Value (down to 0.001 Ω), Surface Mount



### FEATURES

- Very high power to foot print size ratio (1 W in 1206 and 0.5 W in 0805 package)
- 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 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)



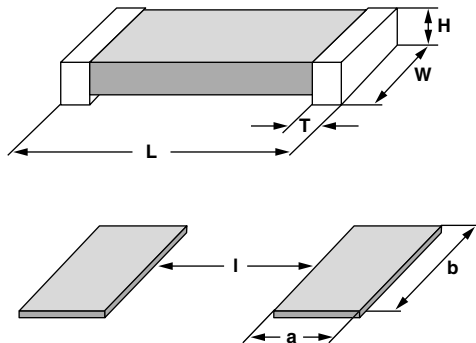
STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING $P_{70^{\circ}\text{C}}$ W	RESISTANCE RANGE Ω		WEIGHT (typical) g/1000 pieces
		± 0.5 %	± 1.0 %	
WSLP0805	0.5	0.01 to 0.05	0.01 to 0.05	4.8
WSLP1206	1.0	0.006 to 0.05	0.001 to 0.05	16.2

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	WSLP RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 275 for 1 mΩ to 2.9 mΩ, ± 150 for 3 mΩ to 4.9 mΩ ± 110 for 5 mΩ to 6.9 mΩ, ± 75 for 7 mΩ to 50 mΩ
Operating Temperature Range	°C	- 65 to + 170
Maximum Working Voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION																	
NEW GLOBAL PART NUMBERING: WSLP1206R0100FEA																	
W	S	L	P	1	2	0	6	R	0	1	0	0	F	E	A		
GLOBAL MODEL			RESISTANCE VALUE				TOLERANCE CODE		PACKAGING CODE				SPECIAL				
WSLP0805 WSLP1206			L = mΩ* R = Decimal 4L000 = 0.004 Ω R0100 = 0.01 Ω  * use "L" for resistance values < 0.01 Ω				D = ± 0.5 % F = ± 1.0 %		EA = Lead (Pb)-free, tape/reel EK = Lead (Pb)-free, bulk				Reserved for future specials				

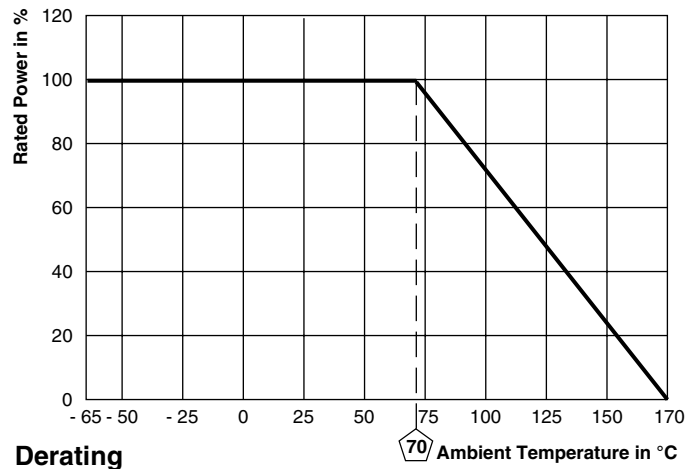


**DIMENSIONS**



MODEL	DIMENSIONS in inches [millimeters]			
	L	W	H	T
WSLP0805	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]
WSLP1206	0.126 ± 0.010 [3.20 ± 0.254]	0.063 ± 0.010 [1.60 ± 0.254]	0.025 ± 0.010 [0.635 ± 0.254]	0.020 ± 0.010 [0.508 ± 0.254]

MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]		
	a	b	l
WSLP0805	0.040 [1.02]	0.050 [1.27]	0.020 [0.50]
WSLP1206	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 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 - 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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