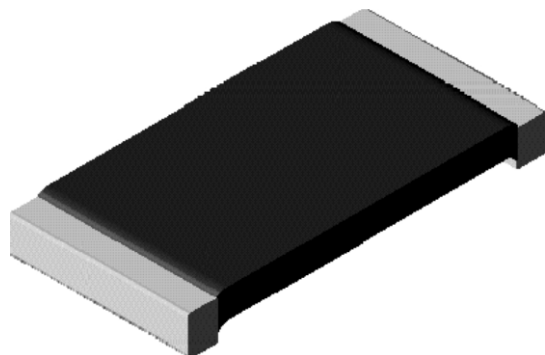


Power Metal Strip® Resistors, Very High Power (1 W) Low Value (down to 0.001 Ω), Surface Mount



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
- 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 μ V/°C)


RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	POWER RATING $P_{70^\circ\text{C}}$ W	RESISTANCE RANGE Ω		WEIGHT (typical) g/1000 pcs
		$\pm 0.5\%$	$\pm 1.0\%$	
WSLP1206	1.0	0.01 - 0.05	0.002 - 0.05	16.2

Note

- Part Marking: Value

TECHNICAL SPECIFICATIONS

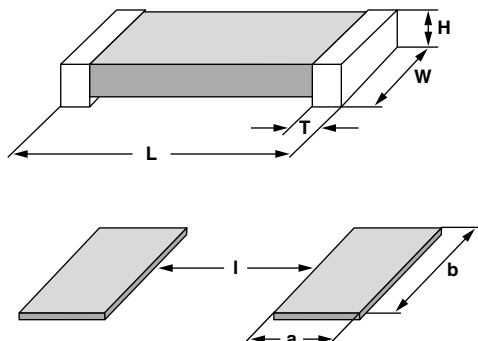
PARAMETER	UNIT	WSLP1206
Temperature Coefficient	ppm/°C	± 75
Operating temperature range	°C	- 65/+ 170
Maximum Working Voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: WSLP1206R0100FEA

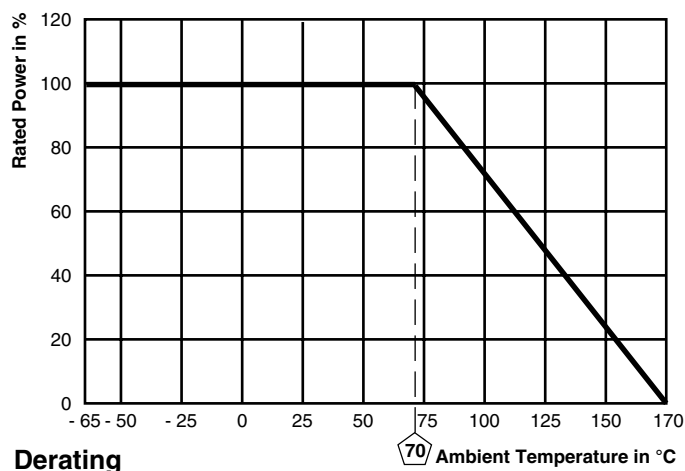
W S L P 1 2 0 6 R 0 1 0 0 F E A

GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
WSLP1206	L = Milliohm* R = Decimal 4L000 = 0.004 Ω R0100 = 0.01 Ω * use "L" for resistance values < 0.01 Ω	D = $\pm 0.5\%$ F = $\pm 1.0\%$	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
WSLP1206	0126 ± 0.010	0.063 ± 0.010	0.025 ± 0.010	0.020 ± 0.010
	[3.20 ± 0.254]	[1.60 ± 0.254]	[0.635 ± 0.254]	[0.508 ± 0.254]

MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]		
	a	b	l
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 minutes at each extreme	± (0.5 % + 0.0005 Ω) ΔR
Low Temperature Operation	- 65 °C for 45 minutes	± (0.5 % + 0.0005 Ω) ΔR
High Temperature Exposure	1000 hours at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 hours	± (0.5 % + 0.0005 Ω) ΔR
Mechanical Shock	100 g's for 6 milliseconds, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR
Vibration	Frequency varied 10 to 2000 Hz in one minute, 3 directions, 12 hours	± (0.5 % + 0.0005 Ω) ΔR
Load Life	1000 hours at 70 °C, 1.5 hrs "ON", 0.5 hours "OFF"	± (1.0 % + 0.0005 Ω) ΔR
Resistance to Solder Heat	+ 260 °C Solder, 10 - 12 second dwell, 25 mm/second 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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