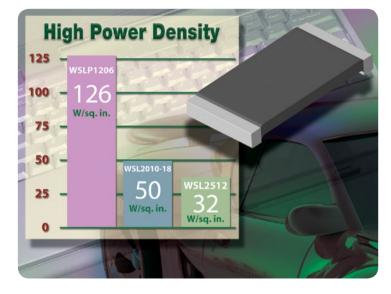




Very High-Power (1 W), Low Value (Down to 0.001 Ω) , Surface-Mount Power Metal Strip® Resistor



KEY BENEFITS

- 1 W power capability in very small 1206 package
- Saves space by enabling use of a 1206 size package to replace 1 W 1508 (35 % space savings), 2010 (61 % space savings) and 2512 (75 % space savings) size parts
- Very low resistance values of 1 m Ω to 50 m Ω
- Low TCR resistance element (< 20 ppm/°C) results in accurate current-sensing, allowing the use of lower cost ICs
- Lead (Pb)-free construction is RoHS-compliant

APPLICATIONS

- Computer
- Automotive

RESOURCES

- Datasheet: WSLP1206 <u>http://www.vishay.com/doc?30122</u>
- For technical questions contact <u>ww2bresistors@vishay.com</u>

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components



VMN-PT9189-1201

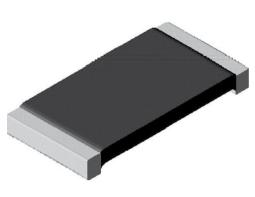


WSI P1206

POWER METAL STRIP® RESISTOR



Very High-Power (1 W), Low Value (Down to 0.001 Ω), Surface-Mount Power Metal Strip® Resistor



FEATURES

- Very high power to foot print size ratio (1 W in 1206, 0.5 W in 0805 and 0.4 W in 0603 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)



COMPLIANT

GREEN

(5-2008

AUTOMOTIVE

Available

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- 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

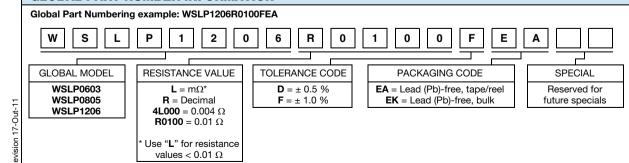
Note

** Please see document "Vishay Material Category Policy": <u>www.vishay.com/doc?99902</u>

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	RESISTANCE VALUE RANGE Ω		WEIGHT (typical)	
WODEL			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	0.005 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 $\Omega,$ \pm 150 for 3 m Ω to 4.9 m Ω \pm 110 for 5 m Ω to 6.9 m $\Omega,$ \pm 75 for 7 m Ω to 0.1 Ω		
Operating temperature range	°C	- 65 to + 170		
Maximum workin voltage	V	$(P \times R)^{1/2}$		

GLOBAL PART NUMBER INFORMATION



PRODUCT SHEET

VMN-PT9189-1201