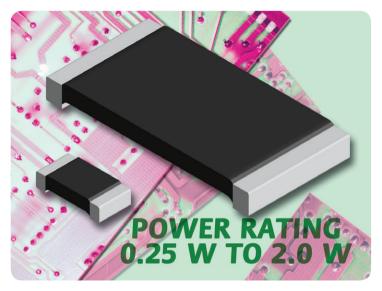


POWER METAL STRIP® RESISTORS



WSL...18 High Power

High Power, Surface-Mount, Power Metal Strip[®] Resistors



KEY BENEFITS

- Four industry standard sizes: 0805, 1206, 2010, and 2512
- Resistance range: 0.001 Ω to 0.5 Ω
- High power current sensing: double the power to package size compared to standard WSL products
- Temperature coefficient: from ± 75 ppm/°C to ± 275 ppm/°C according to size and resistance value
- Excellent frequency response
- Available on tape and reel for auto-insertion

APPLICATIONS

- Computer: DC/DC converters, VRMs, and power management
- Automotive: electronic controls (engine controls, audio electronics, climate controls, anti-lock brakes, etc.)
- Telecommunications: power management, DC/DC converters

RESOURCES

- Datasheet: WSL...18 High Power http://www.vishay.com/doc?31057
- For technical questions contact <u>ww2bresistors@vishay.com</u>

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

VMN-PT9034-1201



PRODUCT SHEET

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POWER METAL STRIP® RESISTORS



Available

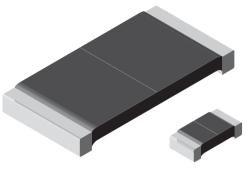
RoHS'

COMPLIANT

(5-2008)

WSL...18 High Power

High Power, Surface-Mount, **Power Metal Strip® Resistors**



FEATURES

- Ideal for all types of current sensing, voltage division and pulse applications switching and linear power including supplies, instruments, power amplifiers
- Proprietary processing technique extremely low resistance values produces down to 0.0005 Ώ)
- Specially selected and stabilized materials allow for high power ratings (2 x standard WSL ratina)
- All welded construction
- Solderable terminations
- Very low inductance 0.5 nH to 5 nH
- GREEN Excellent frequency response to 50 MHz
- Solid metal nickel-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C) Low thermal EMF (< 3 $\mu V/^{\circ}C)$
- AEC-Q200 qualified available
- Compliant to RoHS Directive 2002/95/EC
- Notes
 - Pb containing terminations are not RoHS compliant, exemptions may apply
- ** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

GLOBAL	SIZE	POWER RATING ₽ _{70 °C}	RESISTANCE	WEIGHT (typical)	
MODEL		Ŵ	Tol. ± 0.5 %		g/1000 pieces
WSL060318	0603	0.20	0.01 to 0.1	0.01 to 0.1	1.9
WSL080518	0805	0.25	0.005 to 0.2	0.005 to 0.2	4.8
WSL120618	1206	0.5	0.005 to 0.2	0.001 to 0.2	16.2
WSL201018	2010	1.0	0.004 to 0.5	0.001 to 0.5	38.9
WSL251218	2512	2.0	0.003 to 0.04	0.0005 to 0.04	63.6

Part marking: Value; tolerance: Due to resistor size limitations some resistors will be marked with only the resistance value.

PARAMETER		1	UNIT	1	RESISTOR CHARACTERISTICS	
Temperature coefficient			ppm/°C	\pm 400 for 0.5 mΩ to 0.99 mΩ, ± 275 for 1 mΩ to 2.9 mΩ, ± 150 for 3 mΩ to ± 110 for 5 mΩ to 6.9 mΩ, ± 75 for 7 mΩ to 0.5 Ω		
Operating temperature range			°C	- 65 to + 170		
Maximum working voltage			V	$(P \times R)^{1/2}$		
GLOBAL PA	RT NUMBER	R INFO	ORMATION			
Global Part Num		5		4		8 SPECIAL
WSL0603 WSL0805	L = mΩ* R = Decimal 5L000 = 0.005 Ω R0100 = 0.01 Ω				EA = Lead (Pb)-free, tape/reel	18 = High power
WSL1206 WSL2010 WSL2512					TA = Tin/lead, tape/reel (R86) TG = Tin/lead, tape/reel (RT1, for WSL0603 and WSL0805) BA = Tin/lead, bulk (B43)	option
* Use "L" for resista values < 0.01 Ω				I		
Historical Part N	lumbering exam	ple: WS	L2512-18 0.00	4Ω1	% R86	
WSL2512-18			0.004 Ω		1 % R86	
HISTORICAL MODEL			RESISTANCE VALUE			CODE

PRODUCT SHEET

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