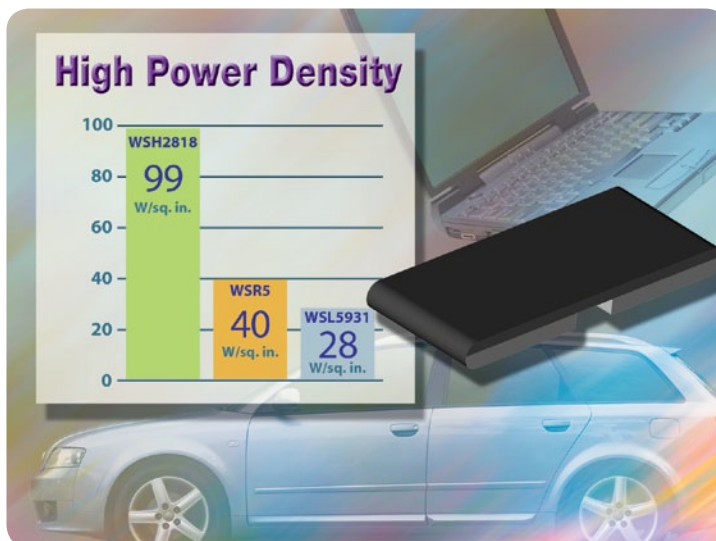


5-Watt Surface-Mount Power Metal Strip® Resistor



KEY BENEFITS

- Power rating of 5 Watt
- Resistance values ranging from 1 mΩ to 100 mΩ
- Tight tolerances down to ± 0.5 %
- Very low inductance of < 5 nH
- RoHS compliant and lead (Pb)-free
- Dimensions of 0.280 x 0.180 x 0.032 inches [7.1 x 4.6 x 0.813 mm]
- Operating temperature range of - 65 °C to + 170 °C
- Includes a low TCR (< 20 ppm/°C) solid metal nickel-chrome or manganese-copper alloy resistive element

APPLICATIONS

- Computer
- Automotive
- Telecommunications
- Consumer
- Industrial

RESOURCES

- Datasheet: WSH2818 - <http://www.vishay.com/doc?30120>
- For technical questions contact ww2bresistors@vishay.com

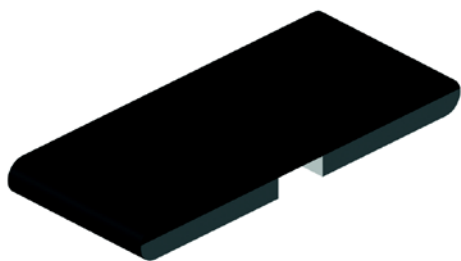


POWER METAL STRIP® RESISTOR

WSH2818



5-Watt Surface-Mount Power Metal Strip® Resistor



FEATURES

- Improved thermal management incorporated into design
- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifier
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Very low inductance (< 5 nH)
- Solid metal nickel-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified ⁽¹⁾
- Compliant to RoHS Directive 2002/95/EC

AUTOMOTIVE GRADE



RoHS COMPLIANT

GREEN (5-2008)**

Note

⁽¹⁾ Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^{\circ}\text{C}}$ W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WSH2818	2818	5 ⁽²⁾	1.0	0.001 to 0.1	126

Note

⁽²⁾ The WSH2818 is rated at 5 W with maximum surface temperature of 200 °C.

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature coefficient	ppm/°C	± 200 for 1 mΩ to 5.99 mΩ ± 75 for 6 mΩ to 100 mΩ
Inductance	nH	< 5
Operating temperature range	°C	- 65 to + 170
Maximum continuous current	A	(P/R) ^{1/2}

GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: WSH2818R1000FEA

W S H 2 8 1 8 R 1 0 0 0 F E A

GLOBAL MODEL

WSH2818

RESISTANCE VALUE

L = mΩ*
R = Decimal
4L000 = 0.004 Ω
R0100 = 0.01 Ω

* Use "L" for resistance values < 0.01 Ω

TOLERANCE CODE

F = ± 1.0 %
J = ± 5.0 %

PACKAGING CODE

EA = Lead (Pb)-free, tape/reel
EK = Lead (Pb)-free, bulk

SPECIAL

(Dash number)
(up to 2 digits)
From 1 to 99
as applicable

Revision 08-Dec-10

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

Resistors - High Power - 5 W