



POWER METAL STRIP® RESISTORS

WSKW0612

Power Metal Strip® Resistors, High-Power, Surface-Mount, 4-Terminal



KEY BENEFITS

- 4-terminal design that enables reduced temperature coefficient and improved measurement accuracy
- Low resistance value range from 0.0005 Ω to 0.003 Ω minimizes component count and power dissipation for improved efficiency

APPLICATIONS

- Automotive: Electronic controls (engine and transmission controls, audio electronics, climate controls, anti-lock brakes, etc.)
- Telecommunications: Power management in cell phones
- Computer: Power management / safety, DC/DC converter, VRMs, Li-Ion battery management
- Industrial: Instrumentation, inverter air conditioning

RESOURCES

- Datasheet: WSKW0612 - www.vishay.com/doc?30332
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912
- For technical questions, contact: ww2bresistors@vishay.com

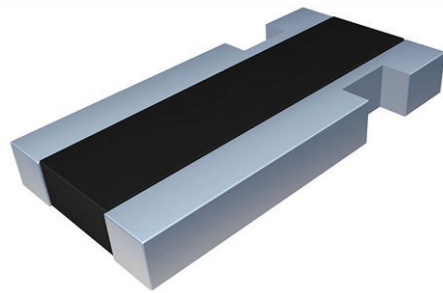
RoHS*
COMPLIANTGREEN
(5-2008)**
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FREE
AvailableA WORLD OF
SOLUTIONS



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FEATURES

- 4-Terminal design
- Ideal for all types of current sensing and pulse applications
- Proprietary processing technique produces low resistance values
- All welded construction
- Solid metal nickel-chrome and manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Low thermal EMF (< 3 μV/°C)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WSKW0612	0612	1.0	1.0, 5.0	1m, 2m, 3m	8.5

Note

(1) Other values may be available, contact factory.

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Component temperature coefficient (including terminal) ⁽²⁾	ppm/°C	1 mΩ and 2 mΩ: 150; 3 mΩ: 75
Element TCR ⁽³⁾	ppm/°C	< 20
Operating temperature range	°C	-65 to +170
Maximum working voltage ⁽⁴⁾	V	$(P \times R)^{1/2}$

Notes

- (2) Component TCR - total TCR that includes the TCR effects of the resistor element and the copper terminal.
 (3) Element TCR - only applies to the alloy used for the resistor element.
 (4) Maximum working voltage - the WSL is not voltage sensitive, but is limited by power / energy dissipation and is also not ESD sensitive.

GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering example: WSKW06121L000FEA (visit www.vishay.net Vishay Dale parts numbering manual for all options)																	
W	S	K	W	0	6	1	2	1	L	0	0	0	F	E	A		
GLOBAL MODEL WSKW0612				RESISTANCE VALUE L = mΩ 1L000 = 0.001 Ω 2L000 = 0.002 Ω 3L000 = 0.003 Ω				TOLERANCE CODE F = ± 1.0 % J = ± 5.0 %			PACKAGING CODE ⁽⁵⁾ EA = lead (Pb)-free, tape / reel EK = lead (Pb)-free, bulk				SPECIAL		

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