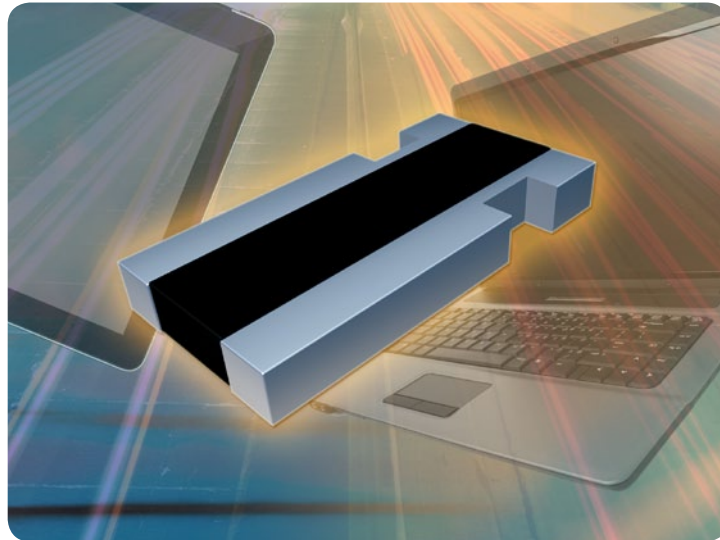


## 1.0 W, 0612 Size, Four-Terminal, Surface-Mount Power Metal Strip® Resistor



### KEY BENEFITS

- Four-terminal design allows resistance tolerances to 1 %
- Reverse geometry results in 1 W power capability with very small 0612 package size
- Very low resistance values (0.5 mΩ to 5.0 mΩ)

### APPLICATIONS

Current Sense Resistor

#### Computer:

- DC/DC converters, VRMs for notebook computers, Li-Ion battery management/safety

#### Consumer:

- DC/DC converters and control management in LCD TVs

#### Automotive:

- Electronic controls (engine and transmission controls, audio electronics, climate controls, anti-lock brakes, and more)

### RESOURCES

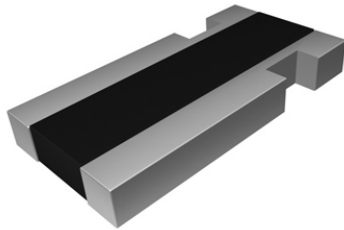
- Datasheet: WSK0612 - <http://www.vishay.com/doc?30161>
- For technical questions contact [ww2bresistors@vishay.com](mailto:ww2bresistors@vishay.com)



# POWER METAL STRIP® RESISTORS

## WSK0612

### 1.0 W, 0612 Size, Four-Terminal, Surface-Mount Power Metal Strip® Resistor



#### FEATURES

- 4-Terminal design
- Ideal for all types of current sensing, voltage division and pulse applications
- Proprietary processing technique produces extremely low resistance values
- Durable with all-welded construction
- Low thermal EMF ( $< 3 \mu\text{V}/^\circ\text{C}$ )
- Solid metal nickel-chrome or manganese-copper resistive element with low TCR ( $< 20 \text{ ppm}/^\circ\text{C}$ )
- Compliant to RoHS Directive 2002/95/EC
- AEC-Q200 qualified available <sup>(1)</sup>

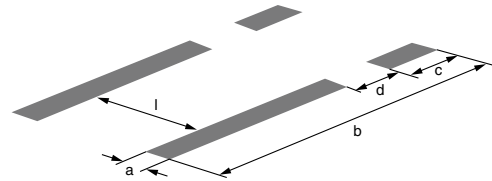
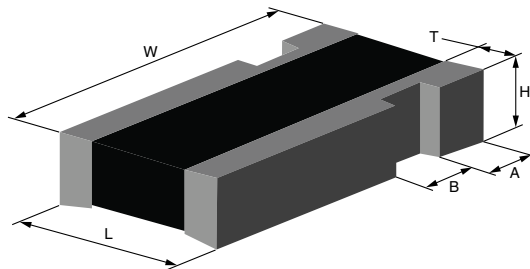
AUTOMOTIVE GRADE Available


 RoHS COMPLIANT  
 GREEN (5-2008)\*\*

#### Note

- <sup>(1)</sup> Flame retardance test may not be applicable to some resistor technologies.

#### DIMENSIONS



MODEL	DIMENSIONS in inches (millimeters)					
	L	W	H	T	A	B
WSK0612	0.060 ± 0.010 (1.50 ± 0.254)	0.120 ± 0.010 (3.05 ± 0.254)	0.015 ± 0.010 (0.381 ± 0.254)	0.015 ± 0.010 (0.381 ± 0.254)	0.020 ± 0.005 (0.51 ± 0.127)	0.020 ± 0.005 (0.51 ± 0.127)

MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)				
	a	b	c	d	l
WSK0612	0.040 (1.01)	0.135 (3.43)	0.030 (0.762)	0.015 (0.381)	0.030 (0.76)

#### STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE <sup>(2)</sup> Ω	WEIGHT (typical) g/1000 pieces
WSK0612	0612	1.0	1.0	0.50m to 5.0m	0.5m, 0.75m, 1m, 2m, 3m, 4m, 5m	8.2

#### Note

- <sup>(2)</sup> Other values may be available, contact factory.

#### GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: WSK06121L000FEA

W	S	K	0	6	1	2	1	L	0	0	0	F	E	A		
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GLOBAL MODEL
WSK0612

RESISTANCE VALUE
L = mΩ
L5000 = 0.0005 Ω
L7500 = 0.00075 Ω
1L000 = 0.001 Ω
2L000 = 0.002 Ω
3L000 = 0.003 Ω
4L000 = 0.004 Ω
5L000 = 0.005 Ω

TOLERANCE CODE
F = ± 1.0 %

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 09-Nov-11