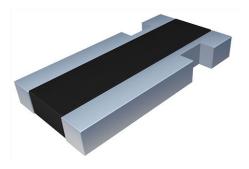
WSK0612



Vishay Dale

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



DESIGN SUPPORT TOOLS (click logo to get started

4-Terminal design

FEATURES

- All welded construction of the Power Metal Strip[®] resistors are ideal for all types of current sensing, voltage division, and pulse applications
- Proprietary processing technique produces extremely low resistance values
- Sulfur resistance by construction that is unaffected by high sulfur environments
- Low thermal EMF (< 3 μV/°C)
- Solid metal nickel-chrome or manganesecopper resistive element with low TCR (< 20 ppm/°C)
- AEC-Q200 qualified available ⁽¹⁾
- PATENT(S): <u>www.vishay.com/patents</u>
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Notes

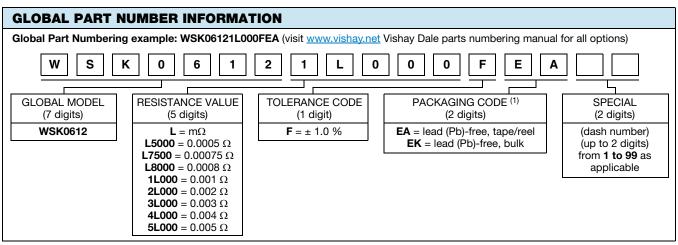
Models Available

- Follow link to Overview of Automotive Grade Products for more details: <u>www.vishay.com/doc?49924</u>
- ⁽¹⁾ Flame retardance test may not be applicable to some resistor technologies

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE (1) Ω	WEIGHT (typical) g/1000 pieces	
WSK0612	0612	1.0	1.0	0.50m to 5.0m	0.5m, 0.75m, 0.8m, 1m, 2m, 3m, 4m, 5m	8.2	

Note

⁽¹⁾ Other values may be available, contact factory



Note

(1) EB (lead (Pb)-free) is a non-standard packaging code designating 1000 piece reels. The non-standard packaging code is identical to our standard EA (lead (Pb)-free), except that it has a package quantity of 1000 pieces

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.

ARE SUBJECT TO SPECIFI Downloaded From Oneyac.com

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w.vishav.com/doc?91000



AUTOMOTIV GRADE

Available

RoHS COMPLIANT HALOGEN FREE GREEN

(5-2008)

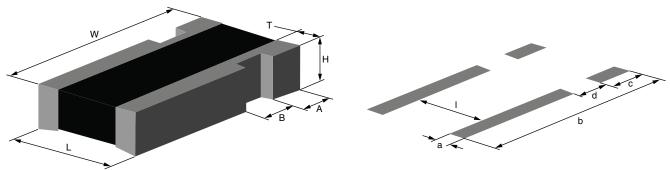


WSK0612

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TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
		0 to -600 for 0.5 m Ω		
		\pm 200 for 0.75 m Ω		
Temperature coefficient	ppm/°C	0 to -275 for 1 m Ω		
		0 to -225 for 2 m Ω		
		0 to -150 for 3 mΩ, 4 mΩ, and 5 mΩ		
Operating temperature range	°C	-65 to +170		
Maximum working voltage	V	(P x R) ^{1/2}		

DIMENSIONS



Notes

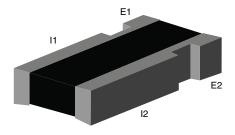
• 3D models available: www.vishay.com/doc?30378

• Surface mount solder profile recommendations: <u>www.vishay.com/doc?31052</u>

MODEL	DIMENSIONS in inches (millimeters)						
	L	w	н	т	Α	В	
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)						
	а	b	с	d	I		
WSK0612	0.040 (1.01)	0.135 (3.43)	0.030 (0.762)	0.015 (0.381)	0.030 (0.76)		

4 TERMINAL KELVIN CONNECTIONS



Notes

- E1 and E2: voltage sense connection
- I1 and I2: current connection

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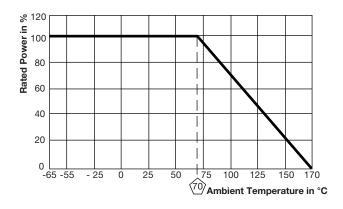
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WSK0612

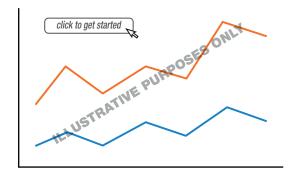


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DERATING



PULSE CAPABILITY



www.vishay.com/resistors/power-metal-strip-calculator

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 1.0 %			
Short time overload	5x rated power for 5 s	± 0.5 %			
Low temperature operation	-65 °C for 24 h	± 0.5 %			
High temperature exposure	1000 h at +170 °C	± 2.0 %			
Bias humidity	+85 °C, 85 % RH, 10 % bias, 1000 h	± 0.5 %			
Mechanical shock	100 <i>g</i> 's for 6 ms, 5 pulses	± 0.5 %			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 %			
Load life	1000 h at +70 °C, 1.5 h "ON", 0.5 h "OFF"	± 2.0 %			
Resistance to solder heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 %			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7a and 7b not required	± 1.0 %			

PACKAGING ⁽¹⁾						
MODEL	REEL					
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSK0612	8 mm/embossed plastic	178 mm/7"	4000	EA		

Notes

• Embossed Carrier Tape per EIA-481

⁽¹⁾ Additional packaging details at <u>www.vishay.com/doc?20051</u>



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