WSK0612



Vishay Dale

Available

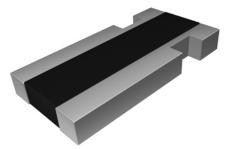
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RoHS COMPLIANT

GREEN

** (5-2008)1

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



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 µV/°C)
- · Solid metal nickel-chrome or manganese-copper resistive element with low TCR (< 20 ppm/°C)
- Compliant to RoHS Directive 2002/95/EC
- AEC-Q200 gualified available ⁽¹⁾

Note

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

Note

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

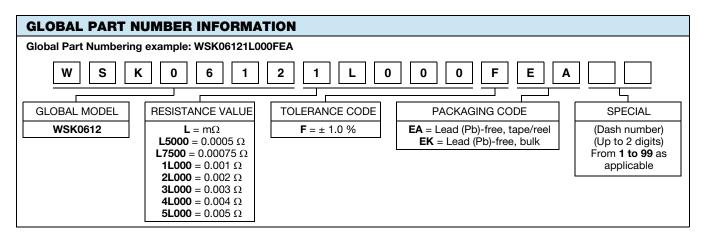
STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE $^{(2)}$	WEIGHT (typical) g/1000 pieces
WSK0612	0612	1.0	1.0	0.50m to 5.0m	0.5m, 0.75m, 1m, 2m, 3m, 4m, 5m	8.2

Note

⁽²⁾ Other values may be available, contact factory.

TECHNICAL SPECIEICATIONS

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



Revision: 09-Nov-11

1 For technical questions, contact: <u>ww2bresistors@vishay.com</u> Document Number: 30161

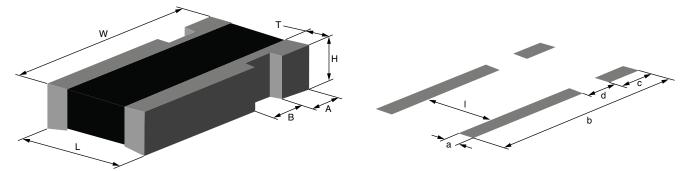
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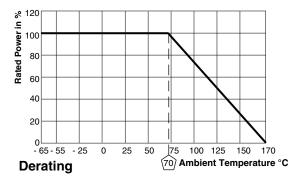
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DIMENSIONS



MODEL	DIMENSIONS in inches (millimeters)						
	L	w	н	т	А	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 ± 0.0^{-2} (0.381 ± 0.25			
MODEL		SOLDER PAD DIMENSIONS in inches (millimeters)					
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MODEL	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)
	-				



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± 1.0 % ∆ <i>R</i>			
Short time overload	5 x rated power for 5 s	± 0.5 % Δ <i>R</i>			
Low temperature operation	- 65 °C for 45 min	± 0.5 % Δ <i>R</i>			
High temperature exposure	1000 h at + 170 °C	± 2.0 % Δ <i>R</i>			
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± 0.5 % Δ <i>R</i>			
Mechanical shock	100 g's for 6 ms, 5 pulses	± 0.5 % Δ <i>R</i>			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 % ΔR			
Load life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 2.0 % Δ <i>R</i>			
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 % Δ <i>R</i>			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7a and 7b not required	± 1.0 % ΔR			

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

Note

• Embossed Carrier Tape per EIA-481.



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Material Category Policy

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