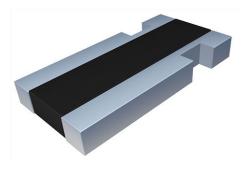
WSK0612



Vishay Dale

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)

• AEC-Q200 qualified available ⁽¹⁾

 Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

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

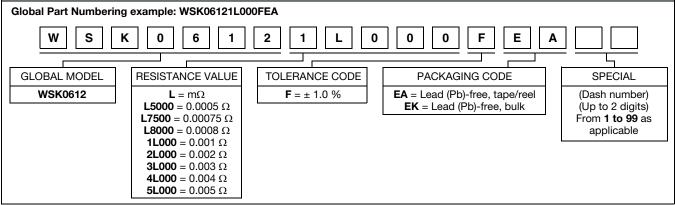
STANDA	RD E	LECTRICAL SP				
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W toleRance ± %		RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE ⁽²⁾ Ω	WEIGHT (typical) g/1000 pieces
WSK0612	0612	1.0	1.0	0.50m to 5.0m	0.5m, 0.75m, 0.8m, 1m, 2m, 3m, 4m, 5m	8.2

Note

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

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

GLOBAL PART NUMBER INFORMATION



Revision: 28-Oct-13

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



Available

HALOGEN FREE GREEN (5-2008)

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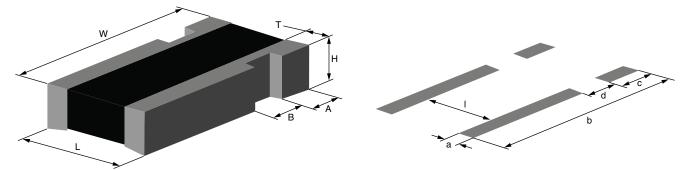
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WSK0612

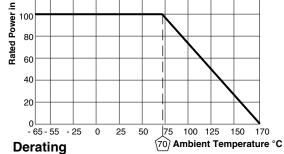
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DIMENSIONS



MODEL		DIMENSIONS in inches (millimeters)						
MODEL	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 (0.381 ± 0.2				
MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)							
WODEL	а	h			Ь	1		

	3	2	v	3	
WSK0612	0.040 (1.01)	0.135 (3.43)	0.030 (0.762)	0.015 (0.381)	0.030 (0.76)
	% L	120			



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 1.0 % Δ <i>R</i>			
Short time overload	5 x rated power for 5 s	± 0.5 % ΔR			
Low temperature operation	-65 °C for 45 min	± 0.5 % ΔR			
High temperature exposure	1000 h at +170 °C	± 2.0 % ΔR			
Bias humidity	+85 °C, 85 % RH, 10 % bias, 1000 h	± 0.5 % ΔR			
Mechanical shock	100 g's for 6 ms, 5 pulses	± 0.5 % ΔR			
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 % ΔR			
Resistance to solder heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 % ΔR			
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.



Vishay

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