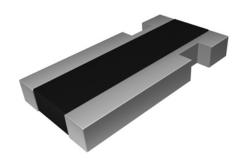


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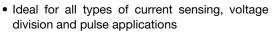
Vishay Dale

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



### **FEATURES**

• 4-Terminal design





- 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)</li>



AEC-Q200 qualified available (1)



#### Note

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

#### Note

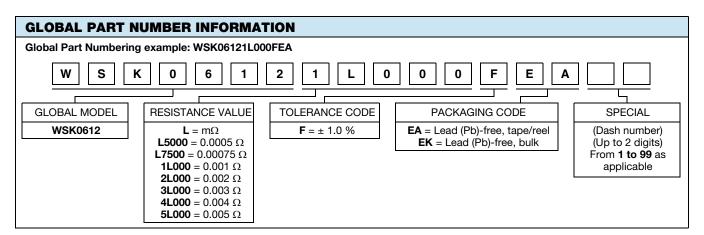
\*\* Please see document "Vishay Material Category Policy": <a href="www.vishay.com/doc?99902">www.vishay.com/doc?99902</a>

STANDARD ELECTRICAL SPECIFICATIONS							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			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

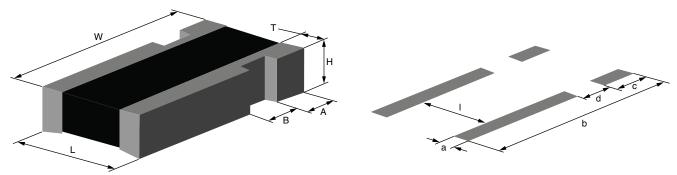
(2) Other values may be available, contact factory.

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS			
Temperature coefficient	ppm/°C	$\pm$ 600 for 0.5 m $\Omega$ 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 $\Omega$ and 5 m $\Omega$			
Operating temperature range	°C	- 65 to + 170			
Maximum working voltage	V	(P x R) <sup>1/2</sup>			



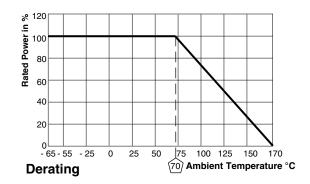


### **DIMENSIONS**



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)	



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± 1.0 % ΔR			
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			
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE	
WSK0612	8 mm/embossed plastic	178 mm/7"	4000	EA	

### Note

<sup>•</sup> Embossed Carrier Tape per EIA-481.



## **Legal Disclaimer Notice**

Vishay

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