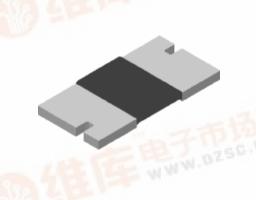
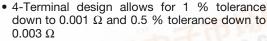
Violation类形式



Power Metal Strip® Resistors, Low Value (down to 0.001 Ω), Surface Mount, 4-Terminal



FEATURES





 Ideal for all types of precision current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers



COMPLIANT

(5-2008)

- Proprietary processing technique produces 0.001Ω)
- extremely low resistance values (down to
- All welded construction
- Solderable terminations
- Solid metal nickel-chrome or manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Excellent frequency response to 50 MHz
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL		POWER RATING	RESISTANCE VALUE RANGE Ω		WEIGHT (typical)	
		W	Tol. ± 0.5 %	Tol. ± 1.0 %	g/1000 pieces	
WSK2512	2512	1.0	0.003 to 0.025	0.001 to 0.025	63.6	

Note

df.dzsc.com

Part marking: DALE, value, tolerance; due to resistor size limitations some resistance values will be marked with only the resistance value.

TECHNICAL SPECIFICATIONS				
PARAMETER UNIT		RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	\pm 250 for 0.001 Ω to 0.0029 Ω , \pm 75 for 0.003 Ω to 0.0049 Ω , \pm 35 for 0.005 Ω to 0.025 Ω		
Operating temperature range	°C	- 65 to + 170		
Maximum working voltage	V	$(P \times R)^{1/2}$		

GLOBAL PART NUMBER INFORMATION New Global Part Numbering: WSK25125L000FTA (preferred part numbering format) S W K 2 0 0 **GLOBAL MODEL RESISTANCE VALUE TOLERANCE CODE** PACKAGING CODE SPECIAL WSK2512 $D = \pm 0.5 \%$ $\mathbf{L} = \mathbf{m}\Omega^*$ EA = Lead (Pb)-free, tape/reel (Dash number) R = Decimal EK = Lead (Pb)-free, bulk (up to 2 digits) $F = \pm 1.0 \%$ $5L000 = 0.005 \Omega$ From **1 to 99** as TA = Tin/lead, tape/reel (R86) **R0100** = 0.01Ω applicable BA = Tin/lead, bulk (B43) * Use "L" for resistance values < 0.01 Ω Historical Part Number Example: WSK2512 0.005 Ω 1 % R86 (will continue to be accepted) WSK2512 0.005 Ω **R86** 1 % RESISTANCE VALUE **HISTORICAL MODEL TOLERANCE CODE** PACKAGING CODE

Pb containing terminations are not RoHS compliant, exemptions may apply
* Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

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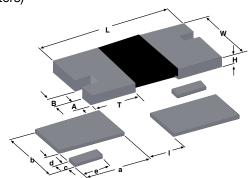




Power Metal Strip® Resistors, Low Value (down to 0.001 Ω), Surface Mount, 4-Terminal

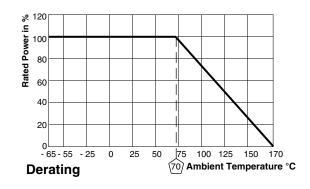
Vishay Dale

DIMENSIONS in inches (millimeters)



	DIMENSIONS								
MODEL	RESISTANCE RANGE Ω	L	w	н	Т	A	В		
WSK2512	0.001 to 0.0049	0.250 ± 0.010 (6.35 ± 0.254)	0.125 ± 0.010 (3.18 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.087 ± 0.010 (2.21 ± 0.254)	0.030 ± 0.010 (0.762 ± 0.254)	0.020 ± 0.010 (0.508 ± 0.254)		
	0.005 to 0.025				0.047 ± 0.010 (1.19 ± 0.254)				

MODEL SOLDER PAD DIMENSIONS						
MODEL	а	b	С	d	е	Ī
WSK2512	0.125 (3.18)	0.130 (3.30)	0.030 (0.76)	0.020 (0.51)	0.055 (1.40)	0.065 (1.65)



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.0005 Ω) ΔR			
Short time overload	5 x rated power for 5 s	\pm (0.5 % + 0.0005 Ω) ΔR			
Low temperature operation	- 65 °C for 24 h	\pm (0.5 % + 0.0005 Ω) ΔR			
High temperature exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR			
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	\pm (0.5 % + 0.0005 Ω) ΔR			
Mechanical shock	100 g's for 6 ms, 5 pulses	\pm (0.5 % + 0.0005 Ω) ΔR			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	\pm (0.5 % + 0.0005 Ω) ΔR			
Load life	1000 h at rated power, + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (1.0 % + 0.0005 Ω) ΔR			
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	\pm (0.5 % + 0.0005 Ω) ΔR			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7a and 7b not required	± (0.5 % + 0.0005 Ω) ΔR			

PACKAGING						
MODEL	REEL					
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSK2512	12 mm/embossed plastic	178 mm/7"	2000	R86		

Note

• Embossed carrier tape per EIA-481-1A.

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Vishay

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