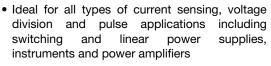
Vishay Dale



Power Metal Strip® Resistors, High Temperature (275 °C) Low Value (down to 0.01 Ω), Surface Mount



FEATURES







GREEN

• Proprietary processing technique produces COMPLIANT

• All welded construction

extremely low resistance values

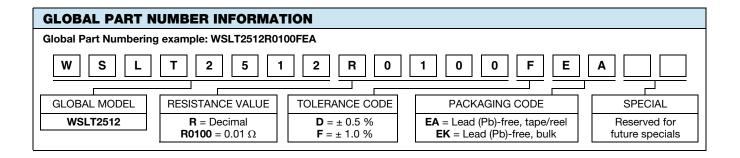
- · Specially selected and stabilized materials allow for high temperature derating (to + 275 °C)
- Solid metal nickel-chrome alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 nH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces	
WSLT2512	2512	1.0	0.5, 1.0	0.01 to 0.50	63.6	

Note

· Part marking: DALE, value, tolerance code.

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	± 75		
Inductance	nH	< 5		
Operating temperature range	°C	- 65 to + 275		
Maximum continuous current	Α	(P/R) ^{1/2}		



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

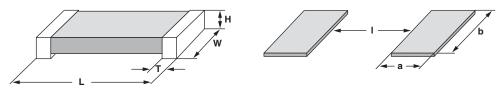
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Power Metal Strip[®] Resistors, High Temperature (275 °C) Low Value (down to 0.01 Ω), Surface Mount

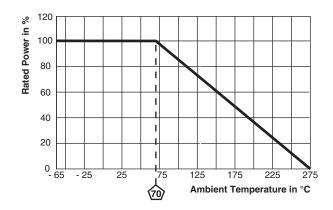
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DIMENSIONS in inches (millimeters)



MODEL	DIMENSIONS				SOLDER PAD DIMENSIONS		
INIODEL	L	w	н	Т	а	b	I
WSLT2512	0.250 ± 0.010 (6.35 ± 0.254)	0.125 ± 0.010 (3.18 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.030 ± 0.010 (0.762 ± 0.254)	0.065 (1.65)	0.145 (3.68)	0.160 (4.06)

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± 0.5 % 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 + 275 °C	± 1.0 % 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 at 70 °C	1000 h, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % ΔR			
Load life at 150 °C	1000 h, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % 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, 7b not required	± 1.0 % ΔR			

PACKAGING						
MODEL	REEL					
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSLT2512	12 mm/embossed plastic	178 mm/7"	2000	EA		

Note

• Embossed Carrier Tape per EIA-481.

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Legal Disclaimer Notice



Vishay

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