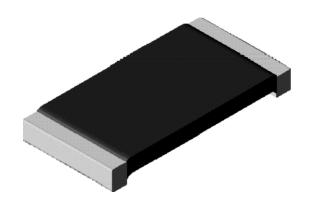
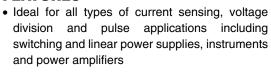
Vishay Dale



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



FEATURES





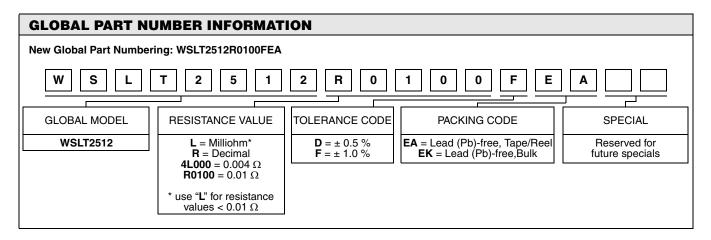


- Proprietary processing technique produces extremely low resistance values
- Specially selected and stabilized materials allow for high
- temperature derating (to + 275 °C)
- All welded construction
- Solid metal Nickel-Chrome alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance (< 5 ηH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< $3 \mu V/^{\circ}C$)

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING P _{70°C} W	RESISTANCE RANGE Ω		WEIGHT (Typical)
		± 0.5 %	± 1.0 %	g/1000 pcs
WSLT2512	1.0	0.01 - 0.50	0.01 - 0.50	63.6

^{*} Part Marking: DALE, Value, Tolerance Code

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	WSLT2512	
Temperature Coefficient	ppm/°C	± 75	
Inductance	ηН	< 5	
Operating temperature range	°C	- 65/+ 275	
Max. Continuous Current	А	(P/R) ^{1/2}	



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For technical questions contact ww2bresistors@vishay.com

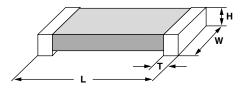
Document Number: 30121 Revision: 20-Jun-06



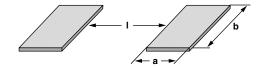
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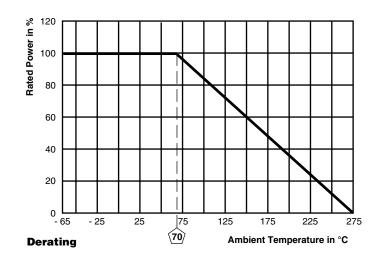
DIMENSIONS



MODEL	DIMENSIONS in inches [millimeters]			
MODEL	L	W	Н	T
WSLT2512	0.250 ± 0.010	0.125 ± 0.010	0.025 ± 0.010	0.030 ± 0.010
	$[6.35 \pm 0.254]$	$[3.18 \pm 0.254]$	[0.635 ± 0.254]	$[0.762 \pm 0.254]$



MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]			
WIODEL	а	b	I	
WSLT2512	0.083	0.145	0.160	
	[1.65]	[3.68]	[4.06]	



PERFORMANCE			
TEST	CONDITIONS OF TEST	TEST LIMITS	
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 minutes at each extreme	± 0.5 % ΔR	
Short Time Overload	5 × rated power for 5 seconds	± 0.5 % ΔR	
Low Temperature Operation	- 65 °C for 45 minutes	± 0.5 % ΔR	
High Temperature Exposure	1000 hours at + 275 °C	± 1.0 % ΔR	
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 hours	± 0.5 % ΔR	
Mechanical Shock	100 g's for 6 milliseconds, 5 pulses	± 0.5 % ΔR	
Vibration	Frequency varied 10 to 2000 Hz in one minute, 3 directions, 12 hours	± 0.5 % ΔR	
Load Life at 70 °C	1000 hours, 1.5 hrs "ON", 0.5 hours "OFF"	± 1.0 % ΔR	
Load Life at 150 °C	1000 hours, 1.5 hrs "ON", 0.5 hours "OFF"	± 1.0 % ΔR	
Resistance to Solder Heat	260 °C Solder, 10 - 12 second dwell, 25 mm/second emergence	± 0.5 % ΔR	
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± 1.0 % ΔR	

PACKING				
MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSLT2512	12 mm/Embossed Plastic	178 mm/7"	2000	EA

Embossed Carrier Tape per EIA-481-2

Legal Disclaimer Notice



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