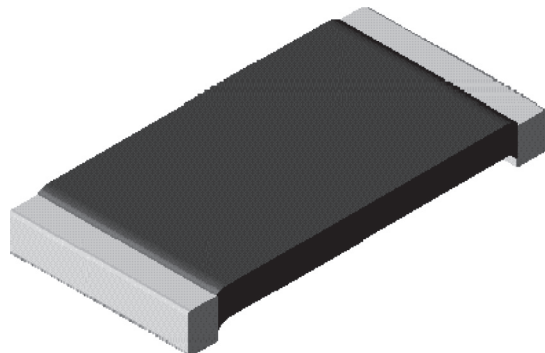


Power Metal Strip® Resistors, High Temperature (275 °C) Low Value (down to 0.01 Ω), Surface Mount



FEATURES

- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- 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



RoHS
COMPLIANT

GREEN
(5-2008)**

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING $P_{70\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE Ω		WEIGHT (Typical) g/1000 pieces
		$\pm 0.5\%$	$\pm 1.0\%$	
WSLT2512	1.0	0.01 to 0.50	0.01 to 0.50	63.6

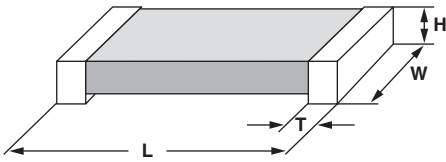
Note

- Part Marking: DALE, Value, Tolerance Code

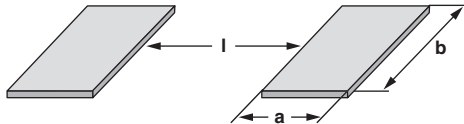
TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	WSLT2512
Temperature Coefficient	ppm/°C	± 75
Inductance	nH	< 5
Operating Temperature Range	°C	- 65 to + 275
Maximum Continuous Current	A	$(P/R)^{1/2}$

GLOBAL PART NUMBER INFORMATION																	
NEW GLOBAL PART NUMBERING: WSLT2512R0100FEA																	
W	S	L	T	2	5	1	2	R	0	1	0	0	F	E	A		
GLOBAL MODEL		RESISTANCE VALUE				TOLERANCE CODE			PACKAGING CODE				SPECIAL				
WSLT2512		L = mΩ* R = Decimal 4L000 = 0.004 Ω R0100 = 0.01 Ω * Use "L" for resistance values < 0.01 Ω				D = $\pm 0.5\%$ F = $\pm 1.0\%$			EA = Lead (Pb)-free, tape/reel EK = Lead (Pb)-free, bulk				Reserved for future specials				

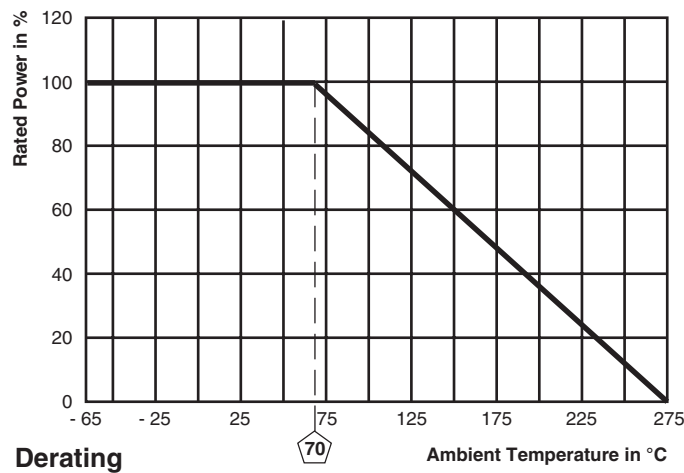
** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

DIMENSIONS


MODEL	DIMENSIONS in inches [millimeters]			
	L	W	H	T
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]



MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]		
	a	b	l
WSLT2512	0.083 [1.65]	0.145 [3.68]	0.160 [4.06]



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 × 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-481-2



Disclaimer

All product specifications and data are subject to change without notice.

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