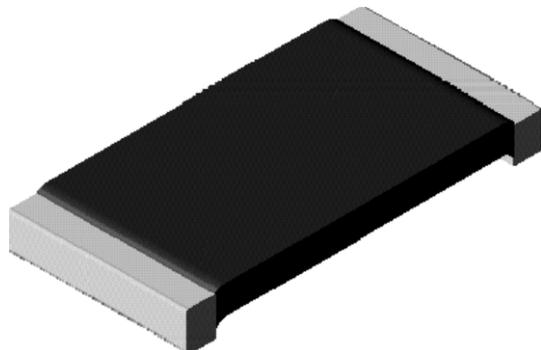


Power Metal Strip[®] Resistors, High Temperature (275 °C) Low Value (down to 0.01 Ω), Surface Mount



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
- 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 nH)
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)



RoHS
COMPLIANT

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

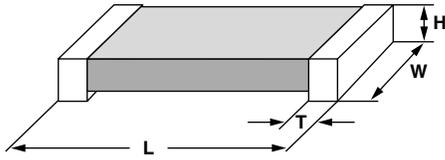
* Part Marking: DALE, Value, Tolerance Code

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

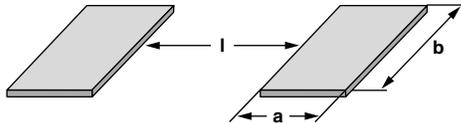
GLOBAL PART NUMBER INFORMATION																	
New Global Part Numbering: WSLT2512R0100FEA																	
W	S	L	T	2	5	1	2	R	0	1	0	0	F	E	A		
GLOBAL MODEL		RESISTANCE VALUE				TOLERANCE CODE		PACKING CODE				SPECIAL					
WSLT2512		L = Milliohm* R = Decimal 4L000 = 0.004 Ω R0100 = 0.01 Ω * use "L" for 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					



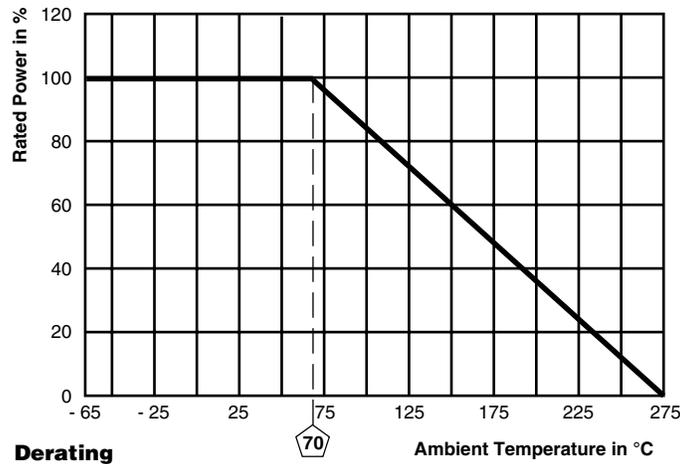
DIMENSIONS



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



MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]		
	a	b	l
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



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