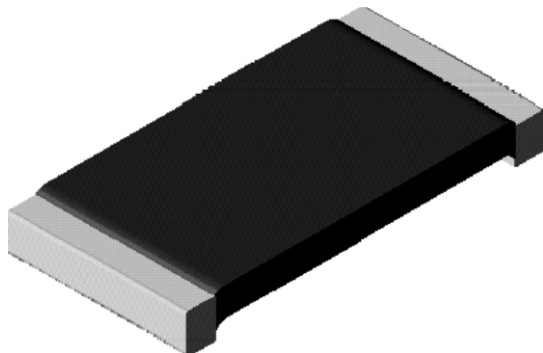


Power Metal Strip® Resistors, High Temperature (275 °C) Low Value (down to 0.01 Ω), Surface Mount



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

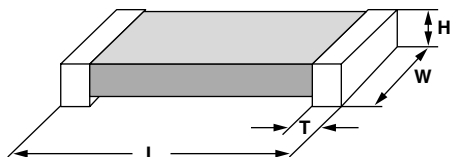
PARAMETER	UNIT	WSLT2512
Temperature Coefficient	ppm/°C	± 75
Inductance	nH	< 5
Operating temperature range	°C	- 65/+ 275
Max. Continuous Current	A	$(P/R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

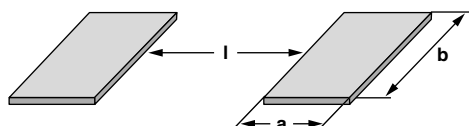
New Global Part Numbering: WSLT2512R0100FEA

W S L T 2 5 1 2 R 0 1 0 0 F E A

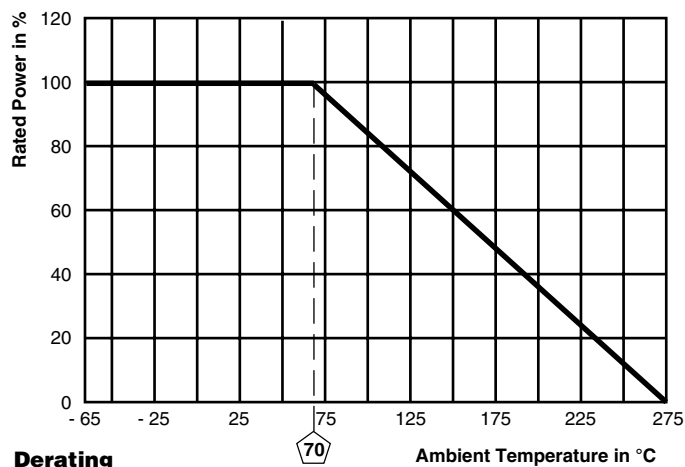
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKING CODE	SPECIAL
WSLT2512	L = Milliohm* R = Decimal 4L000 = 0.004 Ω R0100 = 0.01 Ω * use "L" for resistance values < 0.01 Ω	D = $\pm 0.5\%$ F = $\pm 1.0\%$	EA = Lead (Pb)-free, Tape/Reel EK = Lead (Pb)-free, Bulk	Reserved for future specials

**DIMENSIONS**

MODEL	DIMENSIONS in inches [millimeters]			
	L	W	H	T
WSLT2512	0.250 ± 0.010 [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 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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