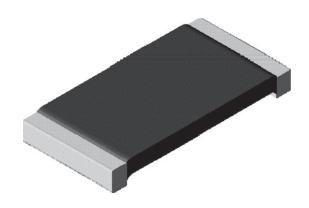
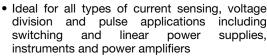
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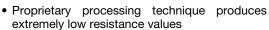
Power Metal Strip® Resistors High Temperature (275 °C), High Power (1 W), Low Value (down to 0.01 Ω), Surface Mount



FEATURES









- Specially selected and stabilized materials allow for high temperature derating (to + 275 °C) and high power ratings (2 x standard WSL rating)
- COMPLIANT **GREEN**
- 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)
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE %	$\begin{array}{c} \textbf{RESISTANCE}\\ \textbf{VALUE RANGE}\\ \Omega \end{array}$	WEIGHT (typical) g/1000 pieces
WSLT201018	2010	1.0	± 0.5 and ± 1.0	0.01 to 0.50	38.9

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

GLOBAL PART NUMBER INFORMATION						
Global Part Numbering: WSLT2010R0100FEA18						
W S L T 2 0 1 0 R 0 1 0 0 F E A 1 8						
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL		
WSLT2010	R = Decimal R0100 = 0.01 Ω	D = ± 0.5 % F = ± 1.0 %				

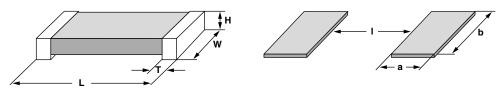
^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902



Power Metal Strip® Resistors High Temperature (275 °C), High Power (1 W), Low Value (down to 0.01 Ω), Surface Mount

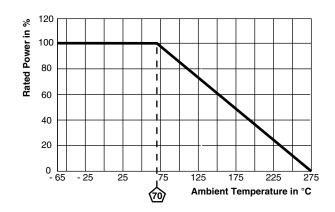
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DIMENSIONS in inches (millimeters)



MODEL	DIMENSIONS				SOLDER PAD DIMENSIONS		
MODEL	L	w	н	Т	а	b	I
WSLT201018	0.200 ± 0.010 (5.08 ± 0.254)	0.100 ± 0.010 (2.54 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.020 ± 0.010 (0.508 ± 0.254)	0.055 (1.40)	0.120 (3.05)	0.130 (3.30)

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	± 2.0 % 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	
WSLT201018	12 mm/embossed plastic	178 mm/7"	4000	EA	

Note

[•] Embossed carrier tape per EIA-481-2.



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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