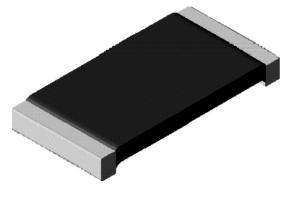
WSLT2010...18

Vishay Dale



Power Metal Strip[®] Resistors High Temperature (275 °C), High Power (1 W), 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



RoHS COMPLIANT

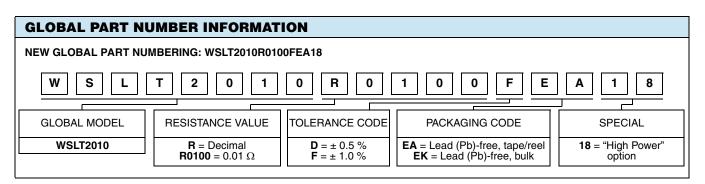
GREEN

(5-2008)

- Proprietary processing technique produces extremely low resistance values
- Specially selected and stabilized materials allow for high temperature derating (to + 275 °C) and high power ratings (2 x standard WSL rating)
- 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	POWER RATING P _{70 °C} W	RESISTANCE RANGE Ω		WEIGHT (typical)
		± 0.5 %	± 1.0 %	g/1000 pieces
WSLT201018	1.0	0.01 to 0.50	0.01 to 0.50	38.9

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	WSLT2010-18	
Temperature Coefficient	ppm/°C	± 75	
Inductance	nH	< 5	
Operating Temperature Range	°C	- 65 to + 275	
Maximum Continuous Current	А	(<i>P</i> / <i>R</i>) ^{1/2}	



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

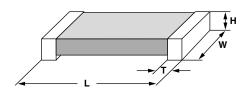


WSLT2010...18

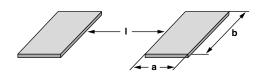
Power Metal Strip[®] Resistors High Temperature (275 °C), High Power (1 W), Low Value (down to 0.01 Ω), Surface Mount

Vishay Dale

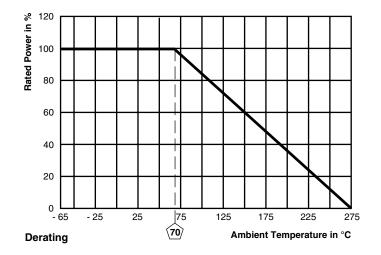
DIMENSIONS



MODEL	DIMENSIONS in inches [millimeters]			
MODEL	L	w	Н	т
WSLT201018	0.200 ± 0.010	0.100 ± 0.010	0.025 ± 0.010	0.020 ± 0.010
	[5.08 ± 0.254]	[2.54 ± 0.254]	[0.635 ± 0.254]	$[0.508 \pm 0.254]$



MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]			
MODEL	а	b	I	
WSLT201018	0.055	0.120	0.130	
	[1.40]	[3.05]	[3.30]	



PERFORMANCE			
TEST	ST CONDITIONS OF TEST		
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± 0.5 % ∆ <i>R</i>	
Short Time Overload	$5 \times$ rated power for 5 s	± 0.5 % ∆ <i>R</i>	
Low Temperature Operation	- 65 °C for 45 min	± 0.5 % ∆ <i>R</i>	
High Temperature Exposure	1000 h at + 275 °C	± 2.0 % ∆ <i>R</i>	
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	± 0.5 % ∆ <i>R</i>	
Mechanical Shock	100 g's for 6 ms, 5 pulses	± 0.5 % ∆ <i>R</i>	
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 % ∆ <i>R</i>	
Load Life at 70 °C	1000 h, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % ∆ <i>R</i>	
Load Life at 150 °C	1000 h, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % ∆ <i>R</i>	
Resistance to Solder Heat	260 °C Solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 % ∆ <i>R</i>	
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± 1.0 % ∆ <i>R</i>	

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



Vishay

Disclaimer

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

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.