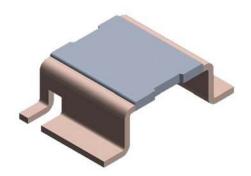


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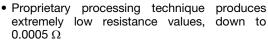
Vishay Dale

Power Metal Strip[®] Resistors, High Temperature (275 °C), High Power, Low Value, Surface Mount, 4-Terminal



FEATURES

- 4-terminal design allows for 1 % tolerance down to 0.002 Ω
- High power-to-footprint size ratio
- Ideal for all types of current sensing, voltage division and pulse applications, including switching and linear power supplies, instruments, power amplifiers and shunts





(5-2008)

AUTOMOTIVE GRADE

- All welded construction
- Solid metal nickel-chrome resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Low thermal EMF (< 3 μV/°C)
- AEC-Q200 qualified available (1)
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

Note

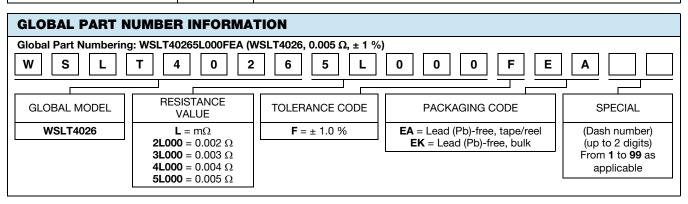
(1) Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	$ \begin{array}{c c} \textbf{RESISTANCE} & \textbf{RESISTANCE VALUES} \\ \textbf{VALUE RANGE} & \textbf{CURRENTLY AVAILABLE} \end{array} $		WEIGHT (typical) g/1000 pieces	
WSLT4026	4026	3.0	1.0	0.3m to 5m	2m, 3m, 4m, 5m	420	

Notes

- Power rating depends on the max. temperature at the solder point, component placement density and the substrate material.
- Part marking: Model, value, tolerance, date code.
- (2) Other values may be available, contact factory.

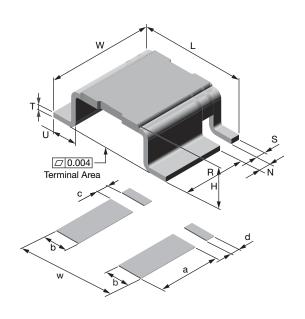
TECHNICAL SPECIFICATIONS					
PARAMETER UNIT RESISTOR CHARACTERISTICS					
Temperature coefficient	ppm/°C	± 75 over temperature of +20 °C to +60 °C			
Operating temperature range	°C	-65 to +275			
Maximum continuous current	V	$(P \times R)^{1/2}$			





DIMENSIONS

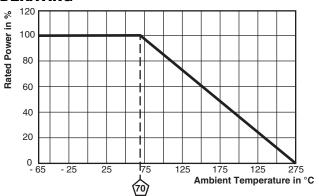
	DIMENSIONS in inches (millimeters)							
MODEL	L	w	н	R (REF.)	s	т	U	N
WSLT4026	0.400 ± 0.008 (10.1 ± 0.2)	0.260 + 0.012/- 0.008 (6.6 + 0.3/- 0.2)	0.117 ± 0.008 (3.0 ± 0.2)	0.198 (5.0)	0.028 ± 0.004 (0.7 ± 0.1)	0.016 ± 0.002 (0.4 ± 0.05)	0.078 ± 0.004 (2.0 ± 0.1)	0.039 ± 0.006 (0.99 ± 0.15)



MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)						
WIODEL	а	b	С	d	w		
WSLT4026	0.220 (5.6)	0.096 (2.44)	0.035 (0.89)	0.035 (0.89)	0.290 (7.4)		

MODEL	RESISTANCE VALUE $(m\Omega)$	ELEMENT MATERIAL		
	2.0	Ni-Cr		
WSLT4026	3.0	Ni-Cr		
W3L14020	4.0	Ni-Cr		
	5.0	Ni-Cr		

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	$0.3~m\Omega,~0.5~m\Omega,~2~m\Omega$ and $3~m\Omega$ - $5x$ rated power for $5~s$ 4 m Ω and $5~m\Omega$ - $3x$ 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	1000 h at +70 °C, 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	± (0.5 %) ΔR			

PACKAGING							
MODEL	REEL						
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSLT4026	16 mm/embossed plastic	330 mm/13"	1500	EA			

Note

• Embossed Carrier Tape per EIA-481.



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Vishay

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