Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

<u>Vishay/Dale</u> <u>WSLT2512R0100FEA</u>

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of WSLT2512R0100FEA - RES SMD 0.01 OHM 1% 1W 2512

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

WSLT2512

Vishay Dale

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



HALOGEN FREE

GREEN

AUTOMOTIVE GRADE

- Proprietary processing technique produces extremely low resistance values
- · All welded construction
- Specially selected and stabilized materials allow for high temperature derating (to +275 °C)
- 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)
- AEC-Q200 qualified available (1)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

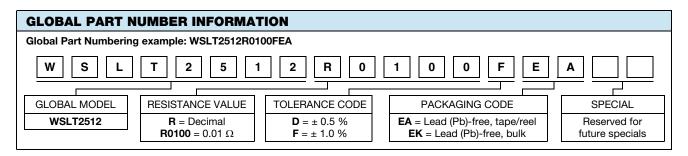
(1) Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces	
WSLT2512	2512	1.0	0.5, 1.0	0.01 to 0.50	63.6	

Note

• Part marking: DALE, value, tolerance code.

TECHNICAL SPECIFICATIONS				
PARAMETER UNIT		RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	± 75		
Element TCR	ppm/°C	< 20		
Inductance	nH	< 5		
Operating temperature range	°C	-65 to +275		
Maximum continuous current	А	(P/R) ^{1/2}		



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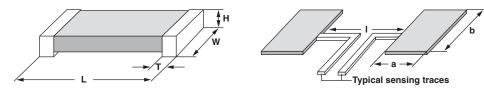


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WSLT2512

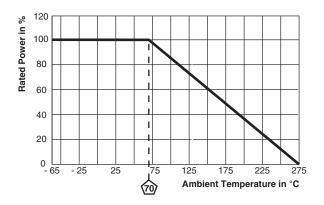
Vishay Dale

DIMENSIONS in inches (millimeters)



MODEL	DIMENSIONS				SOLDER PAD DIMENSIONS		
MODEL	L	w	Н	Т	а	b	I
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)	0.065 (1.65)	0.145 (3.68)	0.160 (4.06)

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	5x 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 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		
WSLT2512	12 mm/embossed plastic	178 mm/7"	2000	EA		

Note

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[•] Embossed Carrier Tape per EIA-481.



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