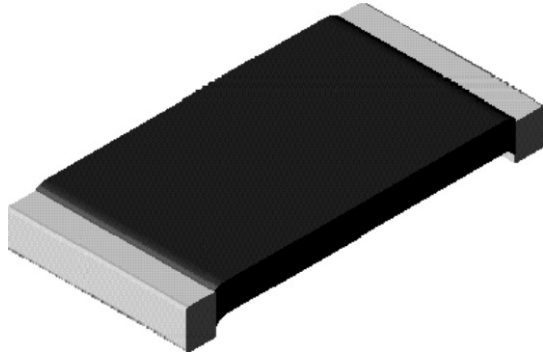


Improved Stability (0.25 % and 0.5 %), Power Metal Strip® Resistors Low Value (0.01 Ω to 0.1 Ω), Surface Mount



FEATURES

- Current sensing in high-temperature (+ 125 °C) applications
- Greater stability with maximum resistance change of 0.25 % or 0.5 % through 2000 h workload
- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts
- Proprietary processing technique produces extremely low resistance values (0.01 Ω to 0.1 Ω)
- All welded construction
- Solid metal Nickel-Chrome resistive element with low TCR (< 20 ppm/°C)
- Lead (Pb)-free construction is RoHS compliant
- Very low inductance 0.5 nH to 2 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 pieces
		± 1.0 %	
WSLS2512	1.0	0.01 - 0.1	63.6

Note

- Part Marking: Value, RTC/Stability code

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	WSLS2512 RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 75
Operating Temperature Range	°C	- 65 to + 170
Maximum Working Voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION																	
NEW GLOBAL PART NUMBERING: WSLS2512R0100FHEA																	
W	S	L	S	2	5	1	2	R	0	1	0	0	F	H	E	A	
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	RTC/STABILITY	PACKAGING CODE	SPECIAL												
WSLS2512	L = mΩ* R = Decimal 5L000 = 0.005 Ω R0100 = 0.01 Ω * use "L" for resistance value < 0.01 Ω	D = ± 0.5 % F = ± 1.0 % J = ± 5.0 %	G = 75 ppm, 0.25 % stability H = 75 ppm, 0.5 % stability	EA = Lead (Pb)-free, tape/reel EK = Lead (Pb)-free, bulk	(Dash Number) (up to 2 digits) From 1 - 99 as applicable												

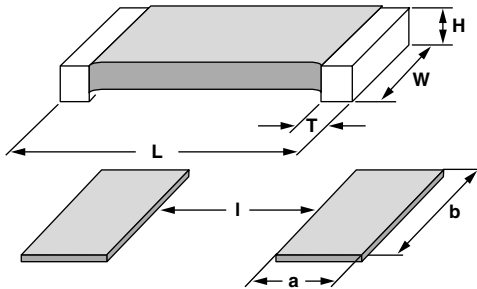


WSLS2512, Improved Stability

Improved Stability (0.25 % and 0.5 %),
Power Metal Strip® Resistors
Low Value (0.01 Ω to 0.1 Ω), Surface Mount

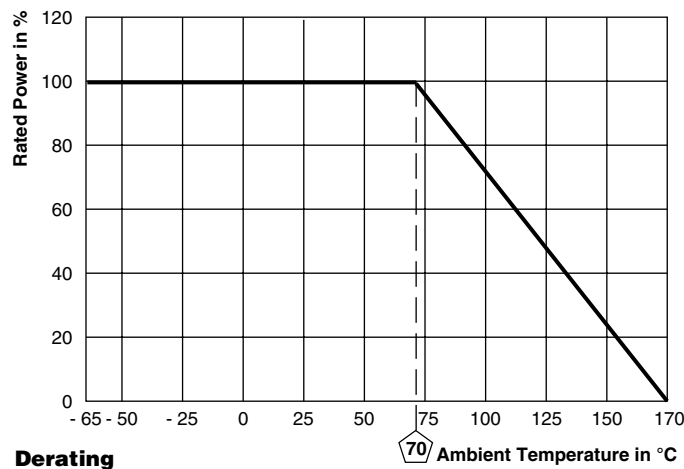
Vishay Dale

DIMENSIONS



MODEL	DIMENSIONS in inches [millimeters]			
	L	W	H	T
WSLS2512	0.250 ± 0.010	0.125 ± 0.010	0.025 ± 0.010	0.030 ± 0.010
	[6.35 ± 0.254]	[3.18 ± 0.254]	[0.635 ± 0.254]	[0.762 ± 0.254]

MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]		
	a	b	l
WSLS2512	0.065	0.145	0.160
	[1.65]	[3.68]	[4.06]



PERFORMANCE			
TEST	CONDITIONS OF TEST	TEST LIMITS	
		0.25 %	0.5 %
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.005 Ω) ΔR	
Short Time Overload	5 x rated power for 5 s for WSL2512 size or smaller	± (0.5 % + 0.005 Ω) ΔR	
Low Temperature Operation	- 65 °C for 45 min	± (0.5 % + 0.005 Ω) ΔR	
High Temperature Exposure	1000 h at + 170 °C	± (1.0 % + 0.005 Ω) ΔR	
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	± (0.5 % + 0.005 Ω) ΔR	
Mechanical Shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.005 Ω) ΔR	
Vibration	Frequency varied 10 to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.005 Ω) ΔR	
Load Life	2000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 0.25 % ΔR	± 0.5 % ΔR
Resistance to Solder Heat	+ 260 °C Solder, 10 to 12 s dwell, 25 mm/s emergence	± (0.5 % + 0.005 Ω) ΔR	
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± (0.5 % + 0.005 Ω) ΔR	

PACKAGING				
MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSLS2512	12 mm/Embossed Plastic	178 mm/7"	2000	EA

Note

- Embossed Carrier Tape per EIA-481-2



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