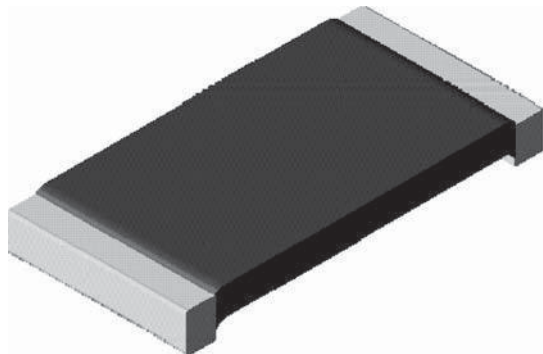


Improved Stability (0.25 % and 0.5 %), Power Metal Strip® Resistors Low Value (0.01 Ω to 0.1 Ω), Surface Mount



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)
- Very low inductance 0.5 nH to 2 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μ V/°C)
- AEC-Q200 qualified ⁽¹⁾
- Compliant to RoHS Directive 2002/95/EC

AUTOMOTIVE GRADE



RoHS COMPLIANT

GREEN (5-2009)**

Note

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

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE $\pm$ %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WSLS2512	2512	1.0	0.5, 1.0, 5.0	0.01 to 0.1	63.6

Note

- Part marking: Value, RTC/stability code.

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature coefficient	ppm/°C	$\pm$ 75
Operating temperature range	°C	- 65 to + 170
Maximum working voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: 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				R = Decimal R0100 = 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 to 99 as applicable	

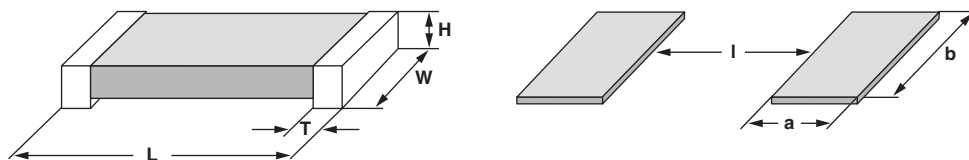


WSLS2512, Improved Stability

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

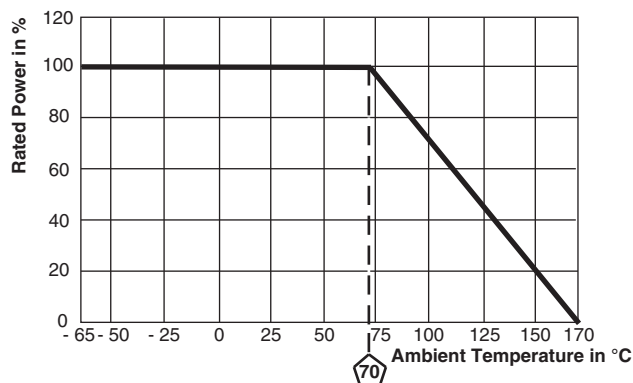
Vishay Dale

DIMENSIONS in inches (millimeters)



MODEL	DIMENSIONS				SOLDER PAD DIMENSIONS		
	L	W	H	T	a	b	l
WSLS2512	0.250 $\pm$ 0.010 (6.35 $\pm$ 0.254)	0.125 $\pm$ 0.010 (3.18 $\pm$ 0.254)	0.025 $\pm$ 0.010 (0.635 $\pm$ 0.254)	0.030 $\pm$ 0.010 (0.762 $\pm$ 0.254)	0.065 (1.65)	0.145 (3.68)	0.160 (4.06)

DERATING



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	$\pm$ (0.5 % + 0.005 Ω) ΔR
Short time overload	5 x rated power for 5 s for WSL2512 size or smaller	$\pm$ (0.5 % + 0.005 Ω) ΔR
Low temperature operation	- 65 °C for 45 min	$\pm$ (0.5 % + 0.005 Ω) ΔR
High temperature exposure	1000 h at + 170 °C	$\pm$ (1.0 % + 0.005 Ω) ΔR
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	$\pm$ (0.5 % + 0.005 Ω) ΔR
Mechanical shock	100 g's for 6 ms, 5 pulses	$\pm$ (0.5 % + 0.005 Ω) ΔR
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	$\pm$ (0.5 % + 0.005 Ω) ΔR
Load life	2000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	$\pm$ 0.25 % ΔR $\pm$ 0.5 % ΔR
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	$\pm$ (0.5 % + 0.005 Ω) ΔR
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	$\pm$ (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.



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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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