

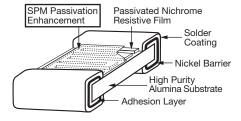


Precision Low TCR Thin Film Resistor, Surface Mount Chip, ± 5 ppm/°C TCR, 0.01 % Tolerance



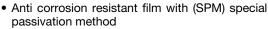
Vishay's proven precision thin film wraparound resistors will meet your exact requirements. These resistors are ideal for precision applications requiring low noise, stability, ultra low temperature coefficient of resistance, and low voltage coefficient. The chip resistors are available in any resistance ohmic value in the range specified below.

CONSTRUCTION



FEATURES

- TCR of ± 5 ppm/°C standard
- Tolerances to ± 0.01 %





- Stable film and performance characteristics (ΔR ± 0.04 % at 70 °C, 10 000 h)
- Non-standard resistance values available
- Very low noise and voltage coefficient (< - 30 dB, 0.1 ppm/V)
- UL 94 V-0 flame resistant
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

TYPICAL PERFORMANCE

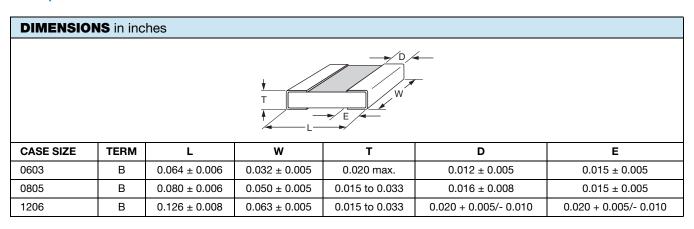
	ABSOLUTE	
TCR	5	
TOL.	0.01	

STANDARD ELECTRICAL SPECIFICATIONS					
TEST	SPECIFICATIONS	CONDITIONS			
Material	Passivated nichrome	-			
Resistance Range	250 Ω to 775 kΩ	-			
TCR: Absolute	± 5 ppm/°C	- 55 °C to + 125 °C			
Tolerance: Absolute	± 0.1 % to ± 0.01 %	+ 25 °C			
Stability: Absolute	ΔR ± 0.02 %	2000 h at 70 °C			
Stability: Ratio	-	-			
Voltage Coefficient	± 0.1 ppm/V (typical)	-			
Working Voltage	75 V to 200 V	-			
Operating Temperature Range	- 55 °C to + 125 °C	-			
Storage Temperature Range	- 55 °C to + 150 °C	-			
Noise	< - 35 dB (typical)	-			
Shelf Life Stability: Absolute	ΔR ± 0.01 %	1 year at + 25 °C			

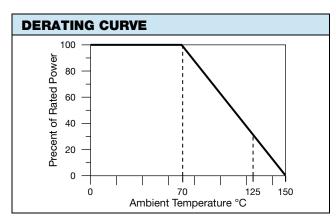
COMPONENT RATINGS				
CASE SIZE	POWER RATING (mW)	WORKING VOLTAGE (V)	RESISTANCE RANGE (Ω)	
0603	150	75	250 to 130K	
0805	250	100	250 to 260K	
1206	400	200	250 to 775K	

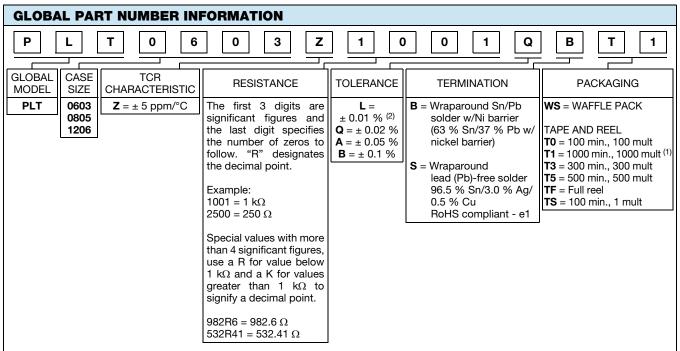






ENVIRONMENTAL TESTS - TYPICAL				
ENVIRONMENTAL TEST	10 kΩ ΔR ± (%)	100 kΩ ΔR ± (%)		
Thermal Shock	0.02	0.02		
Short Time Overload	0.01	0.01		
Low Temperature Operation	0.01	0.01		
Resistance to Solder Heat	0.01	0.01		
Moisture Resistance	0.02	0.02		
High Temperature Exposure	0.02	0.02		
Load Life (10 000 h, + 70 °C)	0.04	0.04		
TCR	± 5 ppm/°C	± 5 ppm/°C		





Notes

(1) Preferred packaging code

(2) $L = \pm 0.01$ % tolerance available only for resistance value greater than 250 Ω



Legal Disclaimer Notice

Vishay

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.