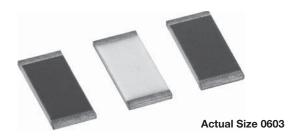
HALOGEN

FREE



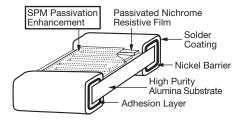


Precision Low TCR Thin Film Resistor, Surface Mount Chip, ± 5 ppm/°C TCR, 0.01 % Tolerance



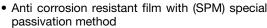
Vishay's proven precision thin film wraparound resistors will meet your exact requirements. These resistors are ideal for precision applications requiring low noise, stability, ultra low temperature coefficient of resistance, and low voltage coefficient. The chip resistors are available in any resistance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

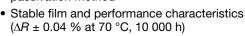
CONSTRUCTION



FEATURES

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







- 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

* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

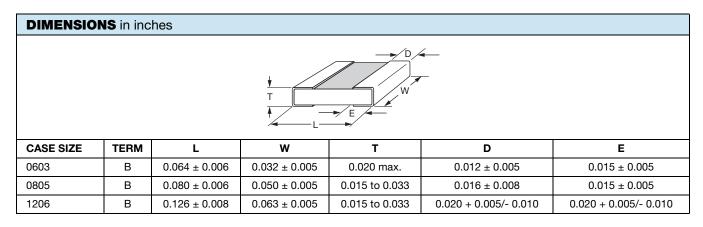
TYPICAL PERFORMANCE

	ABSOLUTE
TCR	5
TOL.	0.01

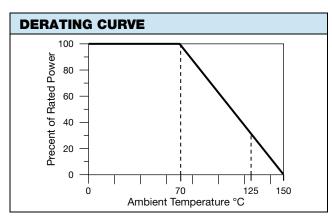
STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
Material	Passivated nichrome	-		
Resistance Range	250 Ω to 775 kΩ	-		
TCR: Absolute	± 5 ppm/°C	-55 °C to +125 °C		
Tolerance: Absolute	± 0.1 % to ± 0.01 %	+25 °C		
Stability: Absolute	ΔR ± 0.02 %	2000 h at 70 °C		
Stability: Ratio	-	-		
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		

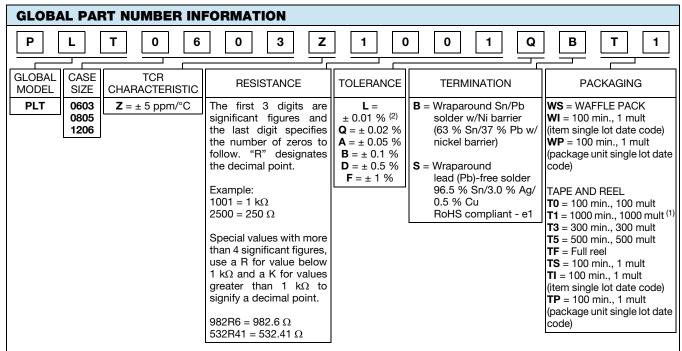
COMPONENT RATINGS					
CASE SIZE	POWER RATING (mW)	WORKING VOLTAGE (V)	RESISTANCE RANGE (Ω)		
0603	150	75	250 to 130K		
0805	250	100	250 to 260K		
1206	400	200	250 to 775K		





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



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Vishay

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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.

Revision: 02-Oct-12 Document Number: 91000

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RER65F4870RC02 RER50F18R7RC02 M8340107K4751FGD03 M8340108K1052FGD03 CRA06S083180KJTA CRA06S083220KJTA

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CNY651AGRST CRA04S0833K90JTD 1KAB100E D55342H07B10E0RT5 516D477M016MN6AE3 BFC237852224 VJ0402A4R7CNAAJ

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