COMPLIANT

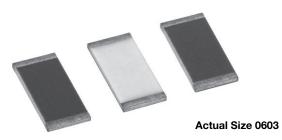
HALOGEN

FREE



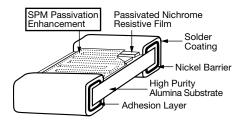


Precision Low TCR Thin Film Resistor, Surface Mount Chip, ± 5 ppm/°C TCR, 0.01 % Tolerance



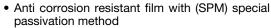
Vishay's proven precision thin film wraparound resistors will meet your exact requirements. These resistors are ideal for precision applications requiring low noise, stability, ultra low temperature coefficient of resistance, and low voltage coefficient. The chip resistors are available in any resistance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

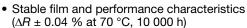
CONSTRUCTION



FEATURES

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





- Non-standard resistance values available
- Very low noise and voltage coefficient (< - 30 dB, 0.1 ppm/V)
- UL 94 V-0 flame resistant
- Compliant to RoHS directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

TYPICAL PERFORMANCE

	ABSOLUTE	
TCR	5	
TOL.	0.01	

TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Resistance Range	250 Ω to 100 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	$\Delta R \pm 0.01 \%$	1 year at + 25 °C

COMPONENT RATINGS					
CASE SIZE (1)	POWER RATING (mW)	WORKING VOLTAGE (V)	RESISTANCE RANGE (Ω)		
0603	150	75	250 to 40K		
0705	250	100	250 to 50K		
0805	250	100	250 to 50K		
1206	400	200	250 to 100K		

Note

Document Number: 60030

Revision: 12-Jan-11

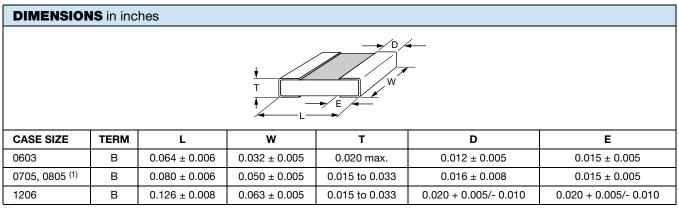
^{(1) 0705} and 0805 are the same (only use 0805 when ordering)

^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

Vishay Thin Film

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

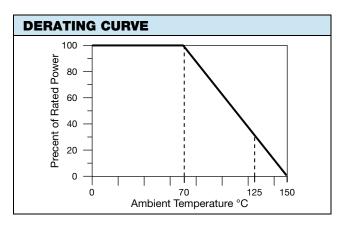


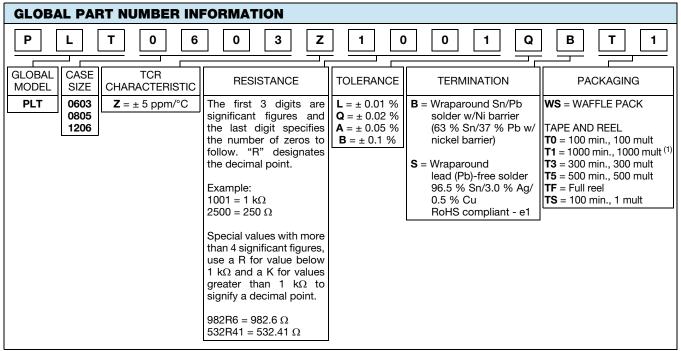


Note

^{(1) 0705} and 0805 are the same (only use 0805 when ordering)

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		





Note

(1) Preferred packaging code



Vishay

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Document Number: 91000 Revision: 18-Jul-08

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