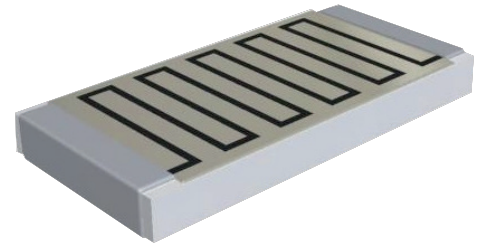


PTS Series

Features

- High stability thin film Platinum sensor
- High resolution, accuracy and interchangeability
- Compatible with automatic placement equipment
- Wide temperature range - very fast response time
- Surface mount package with Pb-free terminations



 All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

The temperature sensor is a conventional thin film platinum RTD in a surface mount package designed for temperature sensing, over-temperature protection and temperature compensation in any application where printed circuit board temperature sensing is desired.

Electrical Data

	P0603	P0805	P1206
Self Heating at 0°C	0.8°C/mW	0.8°C/mW	0.4°C/mW
Available Resistances at 0°C	1000Ω	100Ω, 1000Ω	
Temperature Tolerances	Class B = ±0.3°C @ 0°C (R ₀ ±0.12%) Class 2B = ±0.6°C @ 0°C (R ₀ ±0.24%)		
Operating Temperature Range	-55°C to +130°C (-55°C to +150°C if board CTE is 6-8ppm/°C)		
Temperature Coefficient	+3850 ppm/°C per IEC751		
Insulation Resistance	100MΩ minimum at 20°C		
Recommended Measuring Current To Minimize Self Heating Error	100Ω ≤1mA 1000Ω ≤0.3mA		
Long Term Stability (130°C)	<0.06% at 250hrs	<0.06% at 1000hrs	
Termination	100% Sn over Ni Barrier (minimum 5μm Ni thickness)		

* Temperature coefficient in accordance with IEC751

Performance Data

	Settling Response Time					
	P0603		P0805		P1206	
Rapidly Stirred Oil	<0.2s (t _{0.5})	<0.6s (t _{0.9})	<0.1s (t _{0.5})	<0.4s (t _{0.9})	<0.1s (t _{0.5})	<0.4s (t _{0.9})
Air @ 1m/s	<3.5s (t _{0.5})	<10s (t _{0.9})	<2.5s (t _{0.5})	<8s (t _{0.9})	<2.5s (t _{0.5})	<8s (t _{0.9})

General Note

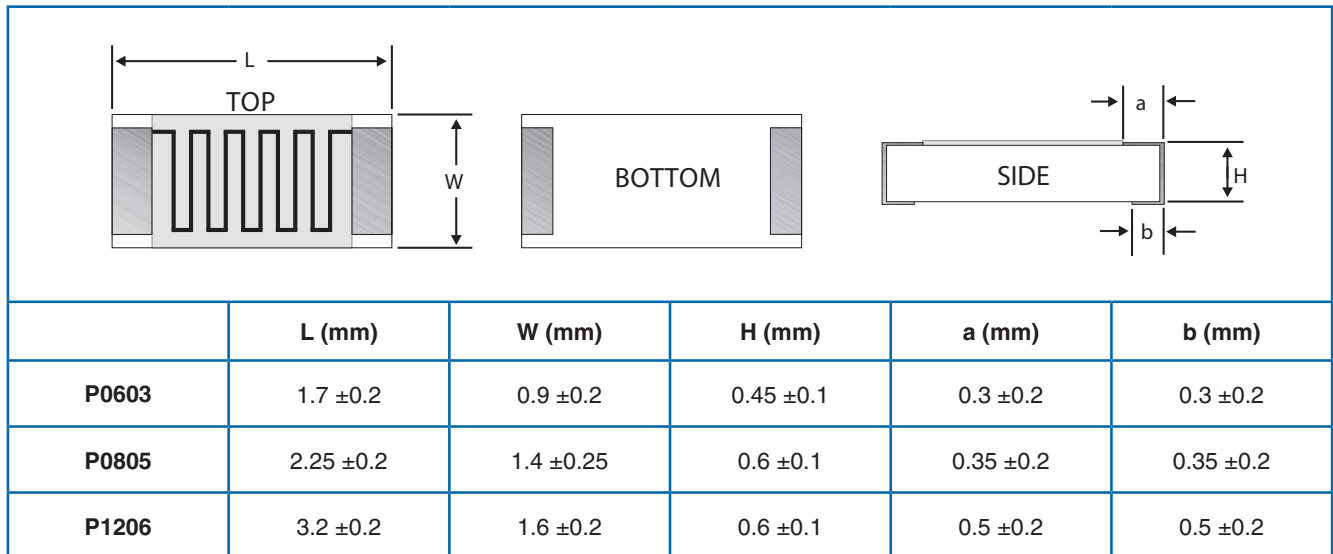
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All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn

www.ttelectronics.com/resistors

PTS Series

Physical Data



Ordering Data

Prefix **PTS** - **P1206LF** - **1001** - **B**

Model
 P1206LF = 1206 chip with Pb-Free terminations
 P0805LF = 0805 chip with Pb-Free terminations
 P0603LF = 0603 chip with Pb-Free terminations

Resistance Code
 Standard 4-Digit resistance code
 Ex: 1000 = 100Ω; 1001 = 1000Ω

Tolerance Code
 B = R₀ ±0.12%
 2B = R₀ ±0.24%

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

General Note

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