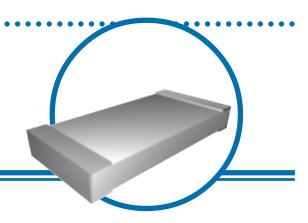
# Platinum Temperature Sensor



#### **RTD Series**

- · Small surface mount package
- · High stability Platinum based sensor
- · High resolution, accuracy and interchangeability
- · Compatible with automatic placement equipment
- · Wide temperature range Very fast response time



#### **Electrical Data**

Licotrical Data				
Resistance Range	100W, 1.0KW			
Resistance Tolerances	±0.5%, ±1%, ±2%, ±5%			
Operating Temperature Range	-55° to +150°C			
Temperature Coefficient	+3750ppm/°C +3850ppm/°C *			
Insulation Resistance	10MW min at 25°C			
Recommended Measuring Current	≤1mA			
Long Term Stability (1000 hours at 125°C)	<0.05%			
Termination	SnPb			
O-K Hdi	P1206			
Self Heating	0.420.90/11/			

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.

Self Heating	P1206	P0805	P0603
	0.130 °C/mW	0.133 °C/mW	0.120 °C/mW
* Specification according to IEC 751			

### Performance Data

Settling Response Time								
	P1206 P0805		805	P0603				
Rapidly Stirred Oil	0.2s	0.6s	0.1s	0.4s	0.1s	0.4s		
	(t <sub>0.5</sub> )	(t <sub>o.9</sub> )	(t <sub>0.5</sub> )	(t <sub>o.9</sub> )	(t <sub>0.5</sub> )	(t <sub>0.9</sub> )		
Air @ 1m/s	1.8s	6s	1.2s	4.2s	1.1s	3.7s		
	(t <sub>0.5</sub> )	(t <sub>0.9</sub> )	(t <sub>0.5</sub> )	(t <sub>0.9</sub> )	(t <sub>0.5</sub> )	(t <sub>0.9</sub> )		



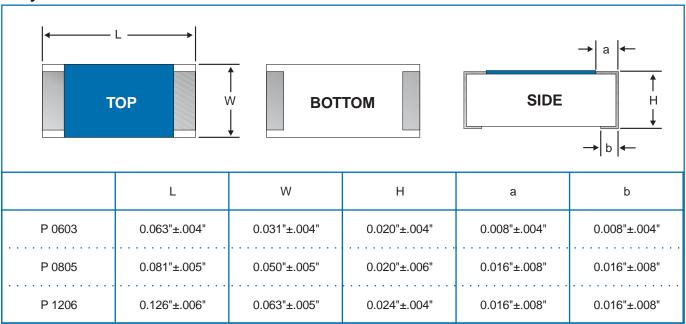
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.



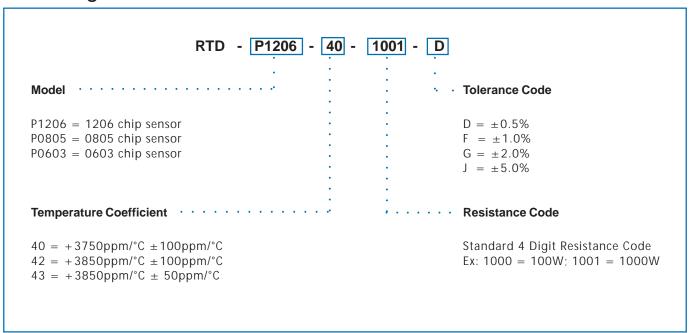
# Platinum Temperature Sensor



## Physical Data



## **Ordering Data**



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