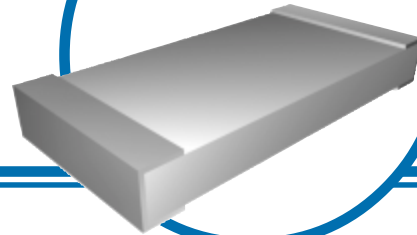


Platinum Temperature Sensor

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

	P1206	P0805	P0603
Self Heating	0.13 °C/mW	0.13 °C/mW	0.14 °C/mW
Available Resistances	100Ω, 1.0KΩ	100Ω	100Ω
Resistance Tolerances	0.5%, 1%, 2%, 5%		
Operating Temperature Range	-55 to +150°C		
Temperature Coefficient	+3750ppm/ °C, +3850ppm/ °C*		
Insulation Resistance	10MΩ minimum at 25°C		
Recommended Measuring Current	≤1mA		
Long Term Stability (1000 hours at 125°C)	<0.05%		
Termination	SnPb		

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.

* Temperature coefficient in accordance with IEC751

Performance Data

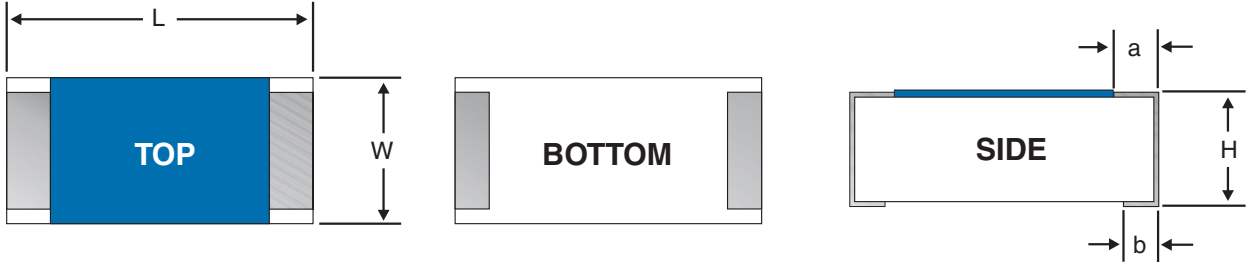
Settling Response Time						
	P1206		P0805		P0603	
Rapidly Stirred Oil	0.2s (t _{0.5})	0.6s (t _{0.9})	0.1s (t _{0.5})	0.4s (t _{0.9})	0.1s (t _{0.5})	0.4s (t _{0.9})
Air @ 1m/s	1.8s (t _{0.5})	6s (t _{0.9})	1.2s (t _{0.5})	4.2s (t _{0.9})	1.1s (t _{0.5})	3.7s (t _{0.9})

General Note

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

					
	L	W	H	a	b
P 0603	0.063"±.004"	0.031"±.004"	0.020"±.004"	0.008"±.004"	0.008"±.004"
P 0805	0.081"±.005"	0.050"±.005"	0.020"±.006"	0.016"±.008"	0.016"±.008"
P 1206	0.126"±.006"	0.063"±.005"	0.024"±.004"	0.016"±.008"	0.016"±.008"

Ordering Data

RTD - P1206 - 40 - 1001 - D			
Model			Tolerance Code
P1206 = 1206 chip sensor			D = ±0.5%
P0805 = 0805 chip sensor			F = ±1.0%
P0603 = 0603 chip sensor			G = ±2.0%
			J = ±5.0%
Temperature Coefficient			Resistance Code
40 = +3750ppm/°C ±100ppm/°C			Standard 4 Digit Resistance Code
42 = +3850ppm/°C ±100ppm/°C			Ex: 1000 = 100Ω; 1001 = 1000Ω
43 = +3850ppm/°C ± 50ppm/°C			

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