Platinum Temperature Sensor



- · High stability Platinum based sensor
- · High resolution, accuracy and interchangeability
- · Compatible with automatic placement equipment
- · Wide temperature range Very fast response time
- · Surface mount package available with SnPb and Pb-free terminations

P1206

0.13°C/mW

100Ω, 1.0ΚΩ

P0805

0.13°C/mW

100Ω

±0.5%, ±1%, ±2%, ±5%

-55°C to +150°C

+3850 ppm/°C

10MΩ minimum at 25°C

≤1mA

<0.05%

60/40 SnPb or 100% Sn

P0603

0.14°C/mW

100Ω

Electrical Data

Available Resistances

Resistance Tolerances

Operating Temperature

Temperature Coefficient

Insulation Resistance

Recommended Measuring

Long term Stability (10,000

Self Heating

Range

Current

hours at 125°C)

Termination



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 i	accordance	with IEC751

Performance Data

		Settling	g Response Time)		
	P12	206	PO	805	P0	603
Rapidly Stirred Oil	0.2s	0.6s	0.1s	0.4s	0.1s	0.4s
	(t _{0.5})	(t _{0.9})	(t _{0.5})	(t _{0.9})	(t _{0.5})	(t _{0.9})
Air @ 1m/s	1.8s	бѕ	1.2s	4.2s	1.1s	3.7s
	(t _{0.5})	(t _{0.9})	(t _{0.5})	(t _{0.9})	(t _{0.5})	(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.

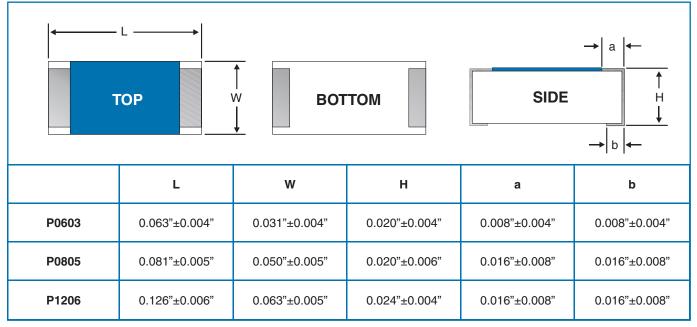
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Platinum Temperature Sensor



Physical Data



Ordering Data

	RTD -	P1206	- 43 -	1001	- D
		:	•	:	:
Model · · · · · · · · · · · · · · · · · · ·	•••••	• • • •			:
P1206 = 1206 chip with standard SnPb termination	าร				
P1206LF = 1206 chip with Pb-Free terminations			:	:	
P0805 = 0805 chip with standard SnPb termination	าร				:
P0805LF = 0805 chip with Pb-Free terminations					
P0603 = 0603 chip with standard SnPb termination	าร		:	:	
P0603LF = 0603 chip with Pb-Free terminations					
Temperature Coefficient · · · · · · · · · · · · · · · · · · ·				:	:
42 = +3850 ppm/°C ±100 ppm/°C					
43 = +3850 ppm/°C ± 50 ppm/°C				:	
· · · · · · · · · · · · · · · · · · ·					
Resistance Code · · · · · · · · · · · · · · · · · · ·					
Standard 4 Digit Resistance Code					
Ex: 1000 = 100Ω; 1001 = 1000Ω					:
Tolerance Code · · · · · · · · · · · · · · · · · · ·	• • • • • • • • •				
D= ±0.5%					
F= ±1.0%					
G=±2.0%					
J=±5.0%					

For additional information or to discuss your specific requirements,

please contact our Applications Team using the contact details below.