

# LABFACILITY

## TEMPERATURE & PROCESS TECHNOLOGY

### About Labfacility

Formed in 1971, Labfacility specialize in the field of Temperature and Process Measurement.

We are the largest UK manufacturer of both temperature sensors and thermocouple connectors

### Quality & Service

Quality and Service are key elements in the continued growth of Labfacility.

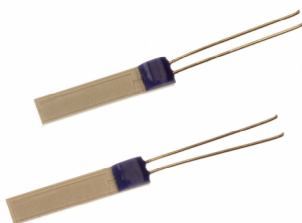
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### Contact Details

Email  
sales@labfacility.com

Website  
www.labfacility.com

## Platinum Sensing Resistors – Thin Film (Pt100 & Pt1000 Ohm)



### Pt100 Elements, Thin Film (100 Ohm)

- ◆ Pt100 elements to IEC751 Class A , B and 1/3DIN
- ◆ For use from  $-50^{\circ}\text{C}$  to  $+500^{\circ}\text{C}$
- ◆ Thin film construction
- ◆ Suitable for surface & immersion applications where protected
- ◆ Vibration resistant

### **Specifications of elements**

|                                                                        |                                                 |
|------------------------------------------------------------------------|-------------------------------------------------|
| Sensor type:                                                           | Pt100 (100 Ohms @ $0^{\circ}\text{C}$ )         |
| Construction:                                                          | Thin film, 10mm tails                           |
| Temperature range:                                                     | $-50^{\circ}\text{C}$ to $+500^{\circ}\text{C}$ |
| Ice point resistance:                                                  | 100 $\Omega$                                    |
| Fundamental interval ( $0^{\circ}\text{C}$ to $100^{\circ}\text{C}$ ): | 38.5 $\Omega$ (nominal)                         |
| Self heating:                                                          | $<0.5^{\circ}\text{C}/\text{mW}$                |
| Thermal response:                                                      | 0.1s                                            |
| Stability:                                                             | $\pm 0.05\%$                                    |

| <b>Dimensions &amp; Tolerance Class</b> | <b>Labfacility code</b> | <b>Farnell code</b> |
|-----------------------------------------|-------------------------|---------------------|
| Pt100, 2 x 5.0mm, Class A               | DM-508                  | 128-9666            |
| Pt100, 2 x 5.0mm, Class B               | DM-503                  | 721-8850 (x5)       |
| Pt100, 2 x 5.0mm, 1/3 din               | DM-510                  | 244-3728            |
| Pt100, 2 x 10mm, Class A                | DM-334                  | 859-8525            |
| Pt100, 2 x 10mm, Class B                | DM-333                  | 859-8533            |
| Pt100, 2.0 x 10mm, 1/3DIN               | DM-509                  | 208-1262            |
| Pt100, 2.0 x 2.3mm, Class A             | DM-303                  | 128-9667            |
| Pt100, 2.0 x 2.3mm, Class B             | DM-301                  | 859-8541            |
| Pt100, 2.0 x 2.3mm, 1/3DIN              | DM-304                  | 208-1261            |
| Pt100, 1.2 x 4.0mm, Class A             | DM-312                  | 128-9668            |
| Pt100, 1.2 x 4.0mm, Class B             | DM-313                  | 128-9669            |
| Pt100, 1.2 x 1.6mm, Class A             | DM-314                  | 128-9670            |
| Pt100, 1.2 x 1.6mm, Class B             | DM-315                  | 128-9671            |
| Pt100, 1.0 x 3.0mm, Class A             | DM-514                  | 208-1259            |
| Pt100, 1.0 x 3.0mm, Class B             | DM-513                  | 208-1257            |

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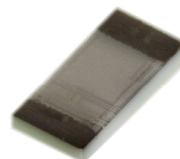
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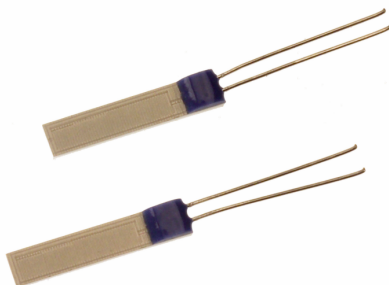
### Pt100 PCB Surface Mount with Solders Pads

- ◆ Temperature range: -50°C to +150°C



| <i>Dimensions &amp; Tolerance Class</i> | <i>Labfacility code</i> | <i>Stock code</i> | <i>Farnell code</i> |
|-----------------------------------------|-------------------------|-------------------|---------------------|
| Pt100, 1.6 x 3.2mm, Class B             | DM-317                  | XF-544-D          | 128-9672            |

### Pt1000 Elements, Thin Film (1000 Ohm)



- ◆ Pt1000 elements to IEC 751 Class A and B
- ◆ For use from -50°C to +500°C
- ◆ Thin film construction
- ◆ Suitable for surface & immersion applications where protected
- ◆ Vibration resistant

### *Specifications of elements*

|                                      |                         |
|--------------------------------------|-------------------------|
| Sensor type:                         | Pt1000 (1000 Ohms @0°C) |
| Construction:                        | Thin film, 10mm tails   |
| Temperature range:                   | -50°C to +500°C         |
| Ice point resistance:                | 1000Ω                   |
| Fundamental interval (0°C to 100°C): | 385Ω (nominal)          |
| Self heating:                        | <0.5°C/mW               |
| Thermal response:                    | 0.1s                    |
| Stability:                           | ±0.05%                  |

| <i>Dimensions &amp; Tolerance Class</i> | <i>Labfacility code</i> | <i>Farnell code</i> |
|-----------------------------------------|-------------------------|---------------------|
| Pt1000, 2.0 x 10mm, Class A             | DM-310                  | 859-8550            |
| Pt1000, 2.0 x 10mm, Class B             | DM-507                  | 774-5655            |
| Pt1000, 1.0 x 3.0mm, Class B            | DM-504                  | 208-1263            |
| Pt1000, 1.25 x 1.7mm, Class B           | DM-318                  | 208-1264            |
| Pt1000, 10 x 2mm, 1/3 din               | DM-311                  | 244-3729            |