**Description**

Littelfuse thin film platinum RTDs (Pt-RTD) consist of a passivated thin film platinum element deposited on a ceramic substrate. Thin film Pt-RTDs provide cost advantages when compared to wirewound platinum resistance temperature detectors.

**Features**

- Glass coated platinum element
- Virtually linear relationship between temperature and resistance
- Capable of withstanding temperatures ranging from -200°C to +600°C.
- Excellent stability even at high temperatures
- High accuracy: Resistance and temperature deviation can be controlled to within ±0.06% and ±0.15°C, a tolerance that corresponds to Class “A” or Class “F 0.15” of DIN EN 60751 (Class A products only)
- High Reliability: Capable of withstanding extreme environmental conditions

**Dimensions**

Dimensions in inches

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Specs Table</td>
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<td>See Specs Table</td>
<td>0.045” Max</td>
<td>32 AWG (0.008”)</td>
</tr>
</tbody>
</table>

**Part Numbering System**

PPG 10 1 A 6

Series

Resistance @ 0°C

Base Value

Multiplier, Power of 10

Ex: 101 = 10 Ω X 101 = 100 Ω

Resistance Tolerance Class (DIN EN 60751)

A = Class F 0.15

No Significance

Note: Not all combinations of Part Number codes are available. Contact Littelfuse for details.
PPG Series Thin Film Platinum RTDs

**Specifications**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance Ohms @ 0°C</th>
<th>Resistance Tolerance ± % @ 0°C</th>
<th>DIN EN 60751 Class</th>
<th>Temperature Dev. ±°C @ 0°C</th>
<th>TCR ppm/°C</th>
<th>Dissipation Constant, Nominal (mW/°C)</th>
<th>Thermal Time Constant, Max. - 1 m/s Moving Air (seconds)</th>
<th>Temperature Rating (°C)</th>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Dimension C</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPG101A6</td>
<td>100</td>
<td>0.06</td>
<td>F 0.15</td>
<td>0.15</td>
<td>3,850</td>
<td>1.8</td>
<td>1.2 -200 to +600</td>
<td>0.394” ± 0.075”</td>
<td>0.0472” ± 0.010”</td>
<td>0.063” ± 0.010”</td>
<td></td>
</tr>
<tr>
<td>PPG102A5</td>
<td>1,000</td>
<td>0.06</td>
<td>F 0.15</td>
<td>0.15</td>
<td>3,850</td>
<td>2.2</td>
<td>2 -200 to +600</td>
<td>0.225” Min</td>
<td>0.0315” ± 0.010”</td>
<td>0.1181” ± 0.010”</td>
<td></td>
</tr>
<tr>
<td>PPG102A6</td>
<td>1,000</td>
<td>0.06</td>
<td>F 0.15</td>
<td>0.15</td>
<td>3,850</td>
<td>1.2</td>
<td>1.2 -200 to +600</td>
<td>0.394” ± 0.075”</td>
<td>0.0472” ± 0.010”</td>
<td>0.063” ± 0.010”</td>
<td></td>
</tr>
</tbody>
</table>

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