UH2 SHIBAURA HIGH TEMPERATURE RANGE THERMISTOR

Long-awaited NTC thermistor withstanding to 800°C finally developed!!
Epoch-making and state-of-the-art thermistor for high temperature range and suitable for mass production!!

■ Features
- As change of electric resistance value to temperature is very low, now can be used at wider temperature range from -50°C to 800°C.
- Shibaura’s cutting-edge technology for mass production of NSIII thermistor has enabled development of unprecedented mass production model for high temperature NTC thermistor.

■ Standard Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Shape</th>
<th>UH2</th>
</tr>
</thead>
<tbody>
<tr>
<td>B value (25 ~ 50°C)</td>
<td></td>
<td>2240 K ± 1%</td>
</tr>
<tr>
<td>Insulation resistance (between lead and glass)</td>
<td></td>
<td>Min. 10 MΩ (50V d.c.)</td>
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<tr>
<td>Thermal time constant (in still air)</td>
<td></td>
<td>13 sec. (10 ~ 16 sec.)</td>
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<tr>
<td>Thermal Dissipation constant (in still air)</td>
<td></td>
<td>1.0 mW/°C (0.8 ~ 1.2 mW/°C)</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td></td>
<td>-50°C ~ +800°C</td>
</tr>
</tbody>
</table>

■ Applications
- Equipment or instrument which needs to detect much higher temperature than before
- Oven ranges, Gas stoves, vaporizer of kerosene for heating equipment
- Automotives
- Industrial equipment using platinum sensors or thermo couples

■ Shape and Dimensions

![Shape and Dimensions diagram](image)

Unit : mm

- 4.5 ± 0.5
- 3.0 ± 1.0
- Ø 0.2 pin lead wire
- Ø 1.8 Ceramic tablet with two holes
- Thermistor chip
- Glass encapsulation

■ Durability test performance
At 800°C for 1000hrs less than ±1%

■ Standard R/T Curve (comparison with other Shibaura thermistors)

![Standard R/T Curve graph](image)