

# Waterproof Thermal-Tab™ Sensor

Compact, fast response thin-film RTD element

## Overview

Install this compact sensor for accurate point sensing and fast response. Model S667 is waterproof and suitable for continuous immersion. Use it to monitor the temperature of water in a tank or container, or on equipment that must withstand wash-down or immersion.

- Fast response surface sensing in aerospace, medical and industrial devices
- Rugged lamination construction

## Specifications

**Design kit part number:** S667PDY36B.

**Temperature range:** -50 to 155°C (-58 to 311°F).

**Dimensions W × L × T max. (measured over the lead bulge):**  
0.20 × 0.60 × 0.12" (5 × 15 × 3 mm).

**Available element options:**

| Sensing element specifications**                     | Code |
|--|------|
| Platinum 385, 100 Ω ±0.12% at 0°C (EN60751, Class B) | PD   |
| Platinum 385, 1000 Ω ±0.12% at 0°C                   | PF   |
| Platinum 375, 1000 Ω ±0.12% at 0°C                   | PW   |

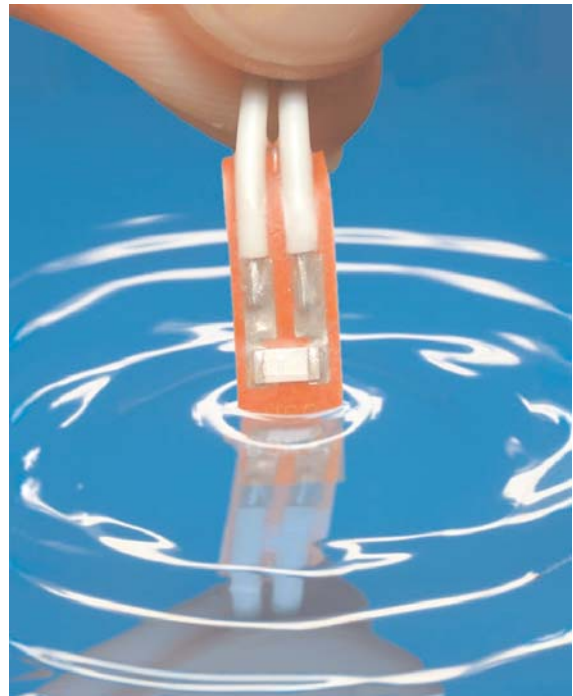
**Insulation:** Silicone rubber with elastomer cover and foil backing.

**Leadwire:** AWG 24, silicone insulated.

**Time constant:** 1.3 seconds in water at 1 m/sec.

**Insulation resistance:** 10 megohms minimum at 100 VDC, leads to case.

**Vibration:** Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202. Method 204, test condition D.



## Specification options

|                                 |   |
|---------------------------------|---|
| S667                            | Model number  |
| PD                              | Sensing element from table  |
| Y                               | Number of leads:<br>Y = 2 leads<br>Z = 3 leads                                |
| 36                              | Lead length in inches: 60" max.   |
| B                               | Adhesive backing:<br>A = No adhesive<br>B = Pressure-sensitive adhesive (PSA) |
| S667PDY36B = Sample part number |   |

**Notes:** PSA reduces temperature range to -20 to 177°C (-4 to 350°F) and adds 0.005" (0.1 mm) to thickness.