

# 6500 Series Thermostat

The Airpax 6500 series is a positive snap action, single pole / single throw, sub-miniature bimetallic thermostat which provides accurate and reliable sensing and switching in a single device.

The 6500 series thermostat dimensionally conforms to the international product package standard Y220 / TO220 without a mounting bracket.

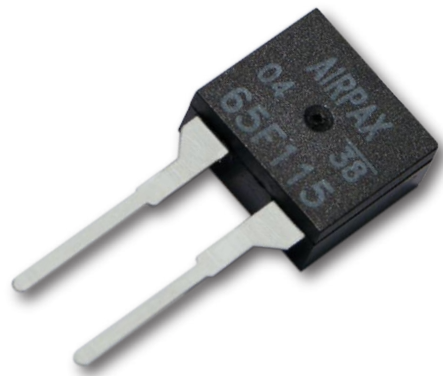
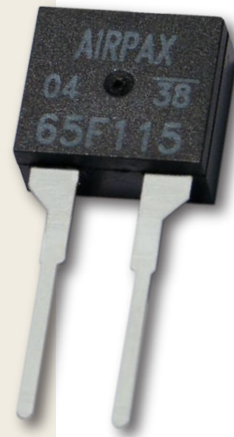
The 6500 provides fast, positive response with excellent repeatability. The thermostat has a switch capability of up to 1 amp for 48VDC or 120VAC for 30,000 cycles, and achieves low-level switching down to 0.001A to 0.020A at 5VDC for 100,000 cycles. Temperature is pre-set at the factory and is non-adjustable in the field.

Monitor the temperature of a piece of equipment and turn on an indicator light, sound an audible alarm or send a message to a display screen. Regulate temperature by turning on or off a heating or cooling device.

The 6500 is suitable for a wide variety of applications such as office equipment, electronic power supplies, transformers, appliances, consumer electronics, motor windings, lighting ballasts, heaters, battery packs, etc.

The 6500 thermostat is temperature tested in a computer controlled automated test equipment air-oven. Due to the ideal conditions under which it is tested, independent customer testing may be necessary to ensure that the correct calibration is utilized in the application.

It is the customer's responsibility to determine whether the product is proper for customer's use and application.



# AIRPAX

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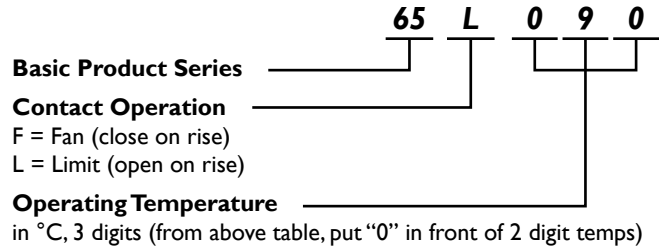
## SPECIFICATIONS

- **Contact Resistance:**  
50 milliohms max (before and after rated life)
- **Contact Ratings:**

Cycles	Voltage	Amps (resistive)
30,000	48 VDC	1.0
30,000	120 VAC	1.0
100,000	5 VDC	0.020
100,000	5 VDC	0.001
- **Contact Operations:**  
Either close on rise (make) or open on rise (break)
- **Operating Temperature Range:**  
40°C to 130°C (104°F to 266°F) with nominal operating temperature settings in 5°C increments
- **Standard Operating Temperature Tolerance:**  
±7°C (±12.6°F)
- **Standard Differential:**  
2°C minimum, 40°C maximum
- **Dielectric Strength:**  
1240 VAC 60Hz, 1 second duration terminals to case
- **Approvals:**  
None

## MATERIALS

- **Seal:** High temperature epoxy
- **Base:** PPS (Polyphenylene Sulfide), 94VO rated
- **Terminals:** 65% Copper, 18% Nickel
- **Contacts:** Gold overlay, silver crossbar

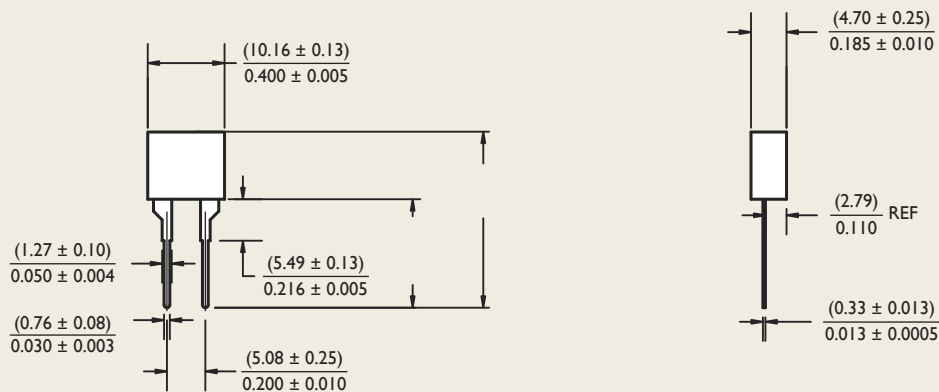
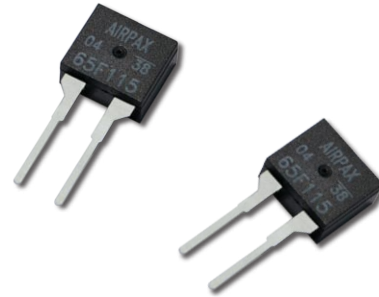


## HOW TO USE THIS CHART

Each thermostat part number consists of functional "building blocks" to enable the user to specify clearly and precisely the desired characteristics in each category. Select the proper code in each category, then transfer it to the box indicated. Unless a special requirement is indicated, the part number will be complete when the proper temperature is selected. If you have a special requirement, please call Airpax for a factory assigned number to complete the part number.

### Example 1:

A 65F090 thermostat will close (make contact) on a rising temperature from 83°C to 97°C and will reset open (break contact) on a falling temperature within a window of no less than 2°C lower than the actual close temperature and no greater than 40°C lower than the actual close temperature.



( millimeters )  
inches

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[www.airpax.net](http://www.airpax.net)