

S6700 SERIES THERMOSTAT

The S6700 series is a RoHS compliant , positive snap action, single pole / single throw,sub-miniature bimetallic thermostat which provides accurate and reliable sensing and switching in a single device.

The S6700 series may be automatically placed and soldered onto PC boards with high speed automated.

equipment,eliminating the need for the expensive hand placement and termination required today for most power supply thermostats

The S6700 provides fast , positive response with excellent repeatability. The thermostat has a switch capability of up to 1 amp for 48 VDC or 120 VAC for 30,000 cycles, and achieves low-level switching down to 0.001A to 0.002A at 5 VCD for 100,000 cycles.Temperature is pre-set at the factory and is non-adjustable in the field.

The S6700 series is ideally suited for use on crowded PC boards.Typical uses include turning on an indicator light,sounding an audible alarm,switch on a control circuit to send a message to a display screen or even switching a circuit to shut down a system. Applications include power supplies, computers and computer peripherals,aircraft, automotive, medical devices and test equipment.



SPECIFICATIONS

Contact Resistance:

100milliohms max (before and after rated life)

Contact Ratings:

CYCLES	VOLTAGE	AMPS(resistive)
30,000	48VDC	1.0
30,000	120VAC	1.0
100,000	5VDC	0.020
100,000	5VDC	0.001

Contact Operations:

Either close on rise (make) or open on rise(break)

Operating Temperature Range:

40°C to 120°C (104°F to 248°F)

Standard Operating Temperature Tolerance:

5°C (9°F) nominal operating temperature settings in 5°C increments

Long Term Exposure Limit:

-55°C to 160°C (-67°F to 320°F)

Dielectric Strength:

Nickel-plated copper bracket has 1480 VAC 60Hz, 1 second duration terminals to case.

Laminated non-conductive bracket has 2000 VAC 60Hz, 1 second duration terminals to case.

Insulation Resistance:

100 Mohms at 500 VDC

Contact Bounce(make):

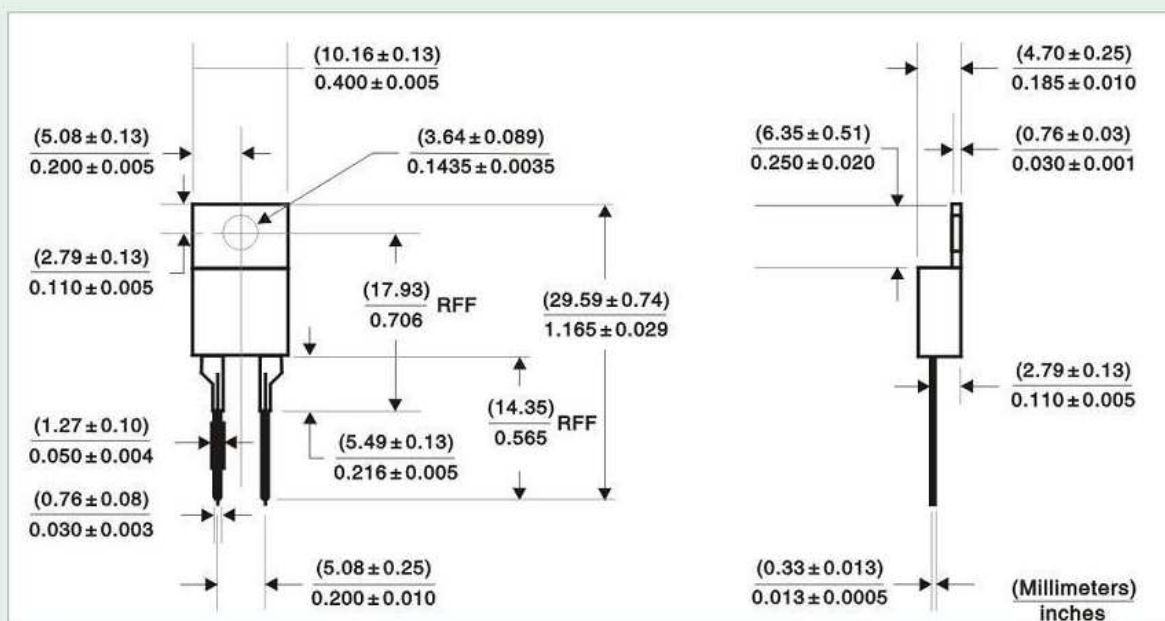
3 milliseconds max

Weight:

Approximately 0.5 grams

Solderability:

Terminal material is selectively striped with electrolytic tin over nickel strike for improved solderability and RoHS compliance.



S6700 Series Standard Temperature Calibrations

Operate($\pm 5^{\circ}\text{C}$)	MIN Differential($^{\circ}\text{C}$)	MIN Reset($^{\circ}\text{C}$)
40	4	20
45	4	20
50	4	30
55	4	30
60	4	40
65	4	40
70	4	50
75	4	50
80	6	55
85	6	55
90	6	60
95	6	60
100	6	70
105	6	70
110	6	80
115	6	80
120	9	85



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