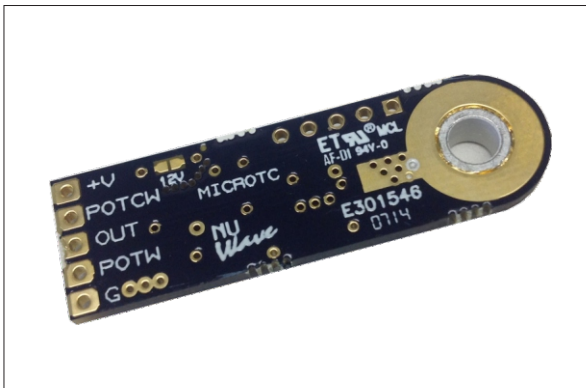


Small Temperature Controller microTC



- **Extremely Cost Effective**
- **Super Compact Design**
- **Mounts with One Screw**
- **Reverse or Direct Acting (Heat or Cool)**
- **Custom Temperature Ranges**
- **Fixed Setpoints & Hysteresis**
- **-10 to 85C with +/- 0.5degC Accuracy**
- **Freeze Protection, Temperature Control**
- **On-Off or Proportional Control**
- **Limited Two Year Warranty**

Product Description

The Micro TC is the smallest and lowest cost temperature controller in our line. The Micro TC is factory set for your setpoints and hysteresis but is available with field adjustable versions using an external potentiometer. Micro TC provides a 3 Amp MOSFET output that can be used to drive an SSR or small heater. The integral sensor eliminates the extra cost of a thermocouple or RTD.

Ordering Codes

MicroTC - . - . - . -

Setpoint Temperature (XX.X degC) *(E) for External

Band or Hysteresis (XX.X degC)

(O) On-Off Control OR (P) Proportional Control

(R) Reverse or (D) Direct Acting Control

Power Supply Voltage, (12) or (24) VDC

*For external setpoint, specify high and low limits of adjustment. For example:
MICROTC-E(20-40) would have an adjustment range of 20-40C.

Input Specifications

Power Supply	12 or 24VDC +/-10%, < 1 Watt Power Consumption
Temperature Setpoint Range	0 to 85 degC
Fixed Setpoint Accuracy	+/- 0.5 degC
External Setpoint Input	~0-5VDC +/-1.5V (0-100% of Potentiometer)
Setpoint Input Impedance	100K
External Potentiometer Resistance	50KOhm

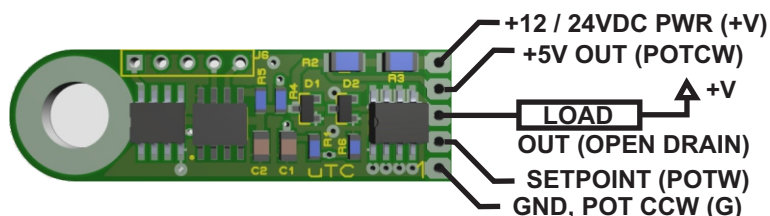
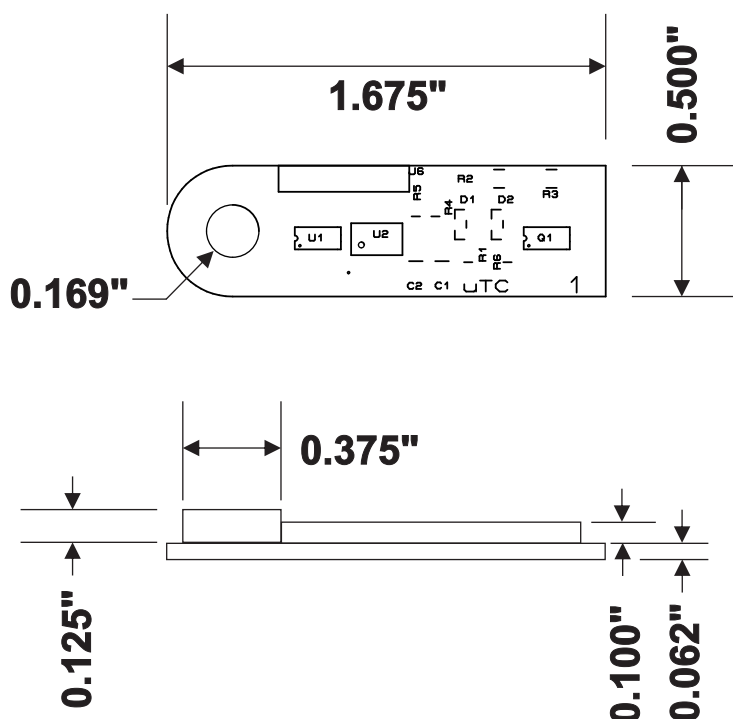
Output Specifications

Control Output	MOSFET, Open Drain, 26V Max, Max Sink Current: 3A@25C, Ambient (Linear Derating to 1A@85C Ambient) Output in proportional mode is time proportioned (PWM)
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Thermal Specifications

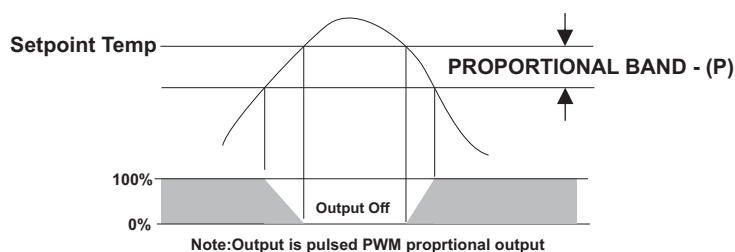
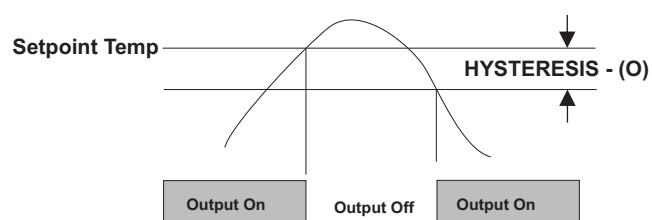
Operating Temperature Range	0 to 85 degC
Storage Temperature Range	-40 to 100 degC

Dimensions & Wiring

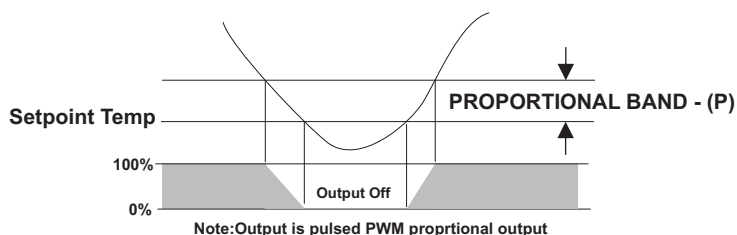
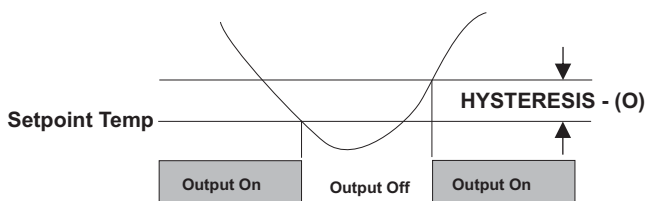


Operation

Reverse Acting (Heating) Examples:



Direct Acting (Cooling) Examples:



Safety Information

Responsibility for determining suitability for use in any application / equipment lies solely on the purchaser, OEM and end user. Suitability for use in your application is determined by applicable standards such as UL, cUL and CE and the completed system involving this component should be tested to those standards.



WARNING: FIRE HAZARD!! Even quality electronic components CAN FAIL KEEPING FULL POWER ON! Provide a SEPARATE (redundant) OVER TEMPERATURE SHUTDOWN DEVICE to switch the power off if safe temperatures are exceeded.