## WTC3243 2.2 A Temperature Controller

- Ultrastable PI control
- Drive ±2.2A of TEC or RH current
- Linear Stability: 0.0009°C
- Small size: 1.3" x 1.28" x 0.313"
- Heat and cool current limits
- Supports Thermistors, RTDs, IC sensors
- Single supply operation: +5 V to +30 V
- Adjustable sensor bias current
- 14 pin DIP PCB mount
- Monitor Actual Temperature



Supply Range: +5 to +30 V

Temperature Control Output Current: up to ±2.2 A

**Temperature Stability:** 0.0009°C (10 kΩ thermistor at 25°C) over one hour

Stability across ambient: 0.002°C (10 kΩ thermistor at 25°C) over an hour ---- Ideal for scanning app

## Setpoint vs. Actual Temperature Accuracy: 2 mV typical

## Features:

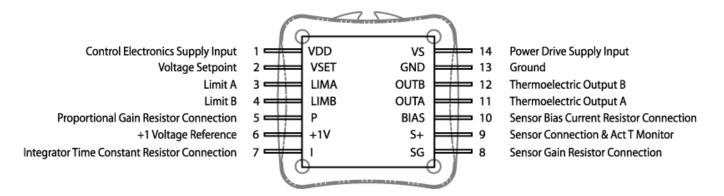
- -Heat and Cool Current Limits
- -PI controller minimizes overshoot and time to temperature
- -Compatible with multiple sensors
- -Adjustable sensor bias current optimizes sensor feedback voltage
- -Can operate with unipolar current for Resistive Heaters

**Maximum Power Dissipation: 9 W** 

Heatspreader Temperature Rise: 30°C / W without external heatsinking

14 pin DIP PCB Mount size: 33 x 32 x 8 mm

## WTC3243 Temperature Controller Pinout - Top View



NOTE: The WHY5640 and WTC3243 do NOT have the same pin configuration.