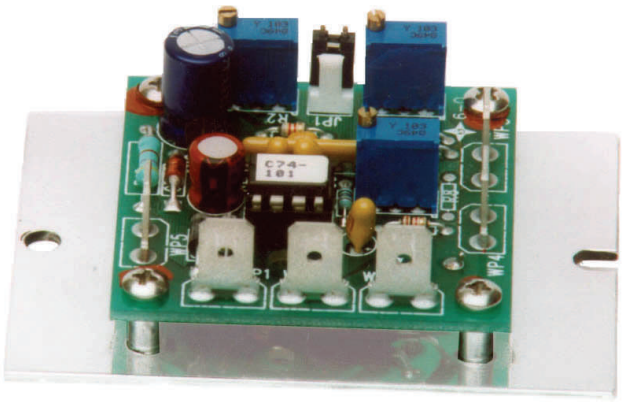
OVENindustries
ELECTRONIC CONTROL SOLUTIONS

5R7-350 THERMOELECTRIC CONTROLLER



Economical, open board temperature controller especially designed to operate with thermoelectric (Peltier effect) modules. The 5R7-350 can be field configured for either cooling or heating mode. These controllers were designed with a proportional integral control algorithm to provide the best control at the best price. Either fixed or adjustable proportional bandwidth and integral rate permits optimizing of individual thermal systems. This controller is capable of providing up to 7.5A of current for modules rated at 12 to 24VDC with a mounting plate temperature of 25°C. Additional external heat sinking will permit operating load currents in excess of 7.5A.

RoHS Compliant

FEATURES

- Solid State PWM PID Control
- 0 to 26VDC output using split power supply
- Low cost design to control T.E. Modules
- Will operate down to 9VDC
- ***5R7-350-10 for 10K Sensor Applications***

SPECIFICATIONS

- Input Voltage: 9 to 24VDC
- Load Supply: 0 to 24VDC
- Load Current: 7.5A
- PWM base frequency: 1Khz
- Set temp adjust: -20 to 100°C
- Bandwidth: 0.5 to 5.0°C
- Integral rate: 0 to 2.55 repeats per minute
- 1.5” (2.14” w HS) H x 2.75” W x 2” D
- Customer Drawing: CDR-00121

ACCESSORIES

- 5R7-350A Remote Pot., dial Scale Plate & Cable
- Heat sink for ≥ 7.5A
- TS67 Sensor, 15K, –20 to 110°C