



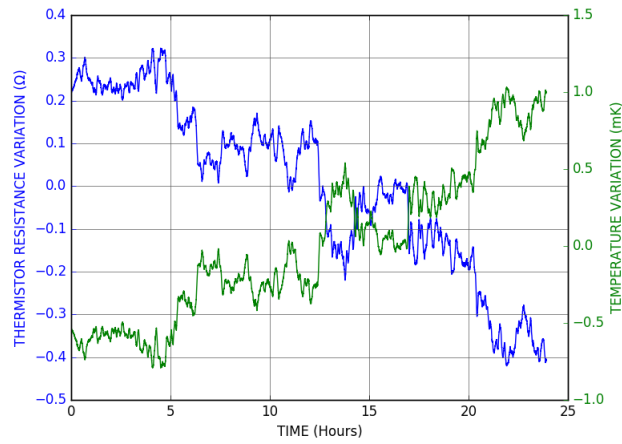
Koheron TEC100L is a compact, high stability temperature controller. It features a high-precision analog front-end, adjustable PID gains and can drive up to 1 A current.

Specifications

	TEC100L-50
Current	-1.15 A to 1.15 A
Adjustment range	5 k Ω to 20 k Ω (40°C to 10°C)
Supply voltage	4.5 V to 5.5 V, nom. 5 V
Supply current	1.3 A
Compliance voltage at 1 A	-4.5 V to 4.5 V
Temperature coefficient	0.002 °C/°C
24h stability	0.005 °C
Quiescent current	3 mA
Operating temperature	0 °C to 50 °C
Outside dimensions	63 mm x 38 mm x 12 mm
Weight	18 g

Stability

The figure below shows the variation of the thermistor resistance stabilized at 26.5 °C during 24 hours at 25 °C ambient temperature. Thermistor resistance drift is less than 1 Ω (temperature drift < 2 mK).



TEC100L-50 24h stability

Because of the non-linear relationship between the temperature and the thermistor resistance, the temperature stability depends on the temperature setpoint.

Ordering codes

PRODUCT NUMBER

ATTRIBUTE

TEC100L-50