

Koheron HTC200 is a digital heater controller with the following features:

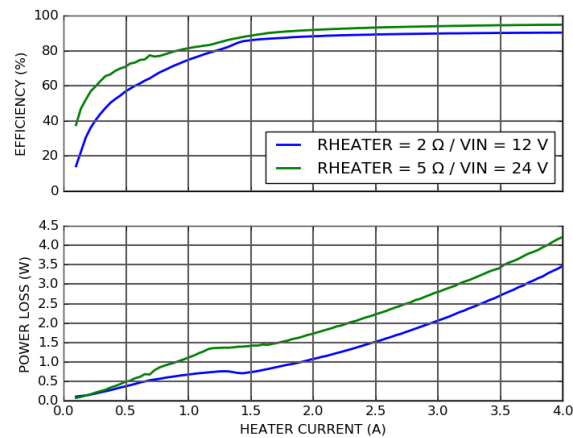
- Current driver 4 A / 20 V
- High power efficiency (up to 94 %)
- -40 °C to 85 °C operating temperature range
- On-board monitoring and diagnostics

Specifications

NTC10K

Current driver	
Heater current	4 A
Heater voltage $V_{in} > 21 \text{ V}$	20 V
Efficiency $V_{in} = 24 \text{ V}, P_{heater} = 80 \text{ W}$	94 %
Maximum heater inductance	1 mH
Temperature sensor	
Sensor type	Thermistor (NTC)
Nominal resistance	10 k Ω
Sensing temperature coefficient 10 k Ω	100 $\mu\text{K}/^{\circ}\text{C}$
Power supply	
Input voltage	9 V to 33 V
Input current limit	5 A
Input power limit	100 W
Surge voltage 1 s max.	$\leq 50 \text{ V}$
Quiescent current Heater OFF, $V_{in} = 24 \text{ V}$	3 mA
Other	
Outside dimensions	91 mm x 60 mm x 17 mm
Weight	83 g
Operating temperature	-40 °C to 85 °C

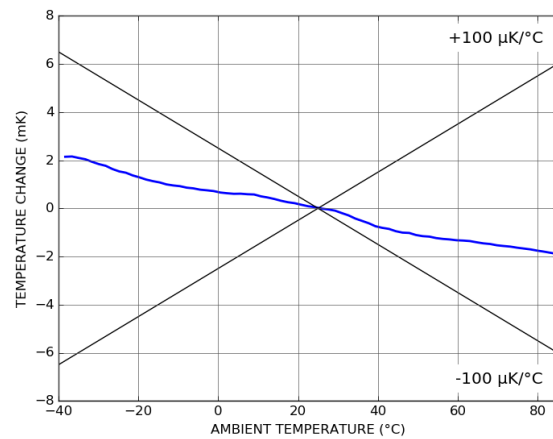
Power efficiency



HTC200 conversion efficiency versus heater resistance

Temperature sensing stability

Temperature sensing variation when measuring a high stability 10 k Ω resistor over the -40 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$ operating range:



HTC200 thermistance measurement temperature coefficient

Ordering codes

PRODUCT NUMBER	ATTRIBUTE
HTC200-20V-NTC10K	None