

UltraTEC[™] UTX Series UTX8-200-F2-4040-TA-W6 MFG Part Number: 387004679

UltraTEC[™] UTX Series Thermoelectric Cooler

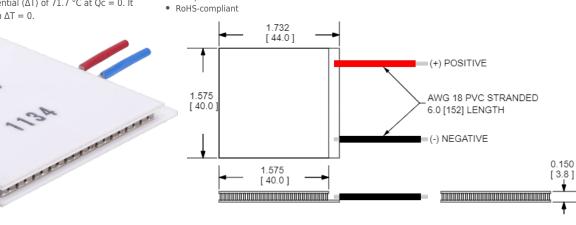
ELEPERENT

The UTX8-200-F2-4040-TA-W6 is a high-performance thermoelectric cooler that is assembled with advanced thermoelectric materials and can boost cooling capacity by up to 10%. The UltraTEC UTX Series features a higher thermal insulating barrier when compared to standard materials creating a maximum temperature differential (ΔT) of 71.7 °C at Qc = 0. It has a maximum Qc of 116.4 Watts when $\Delta T = 0$.

- **Features**
- High heat pump density
- Precise temperature control

Applications

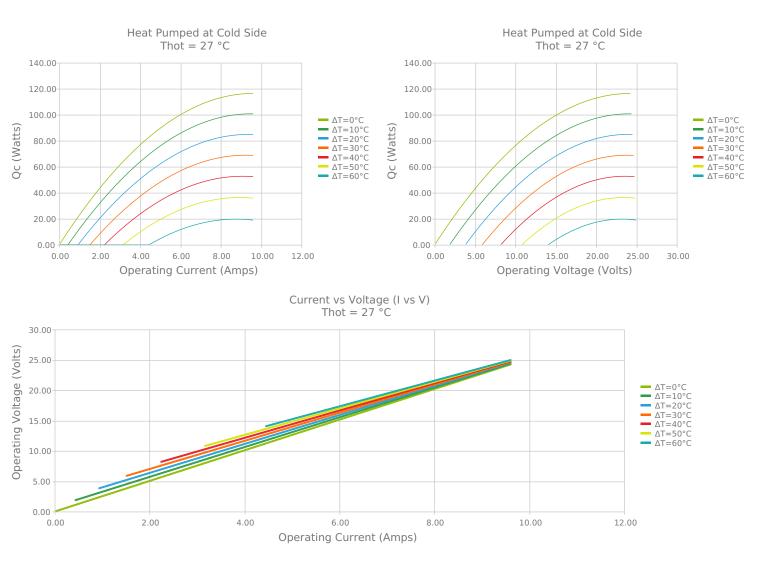
- Reliable solid-state operation
- No sound or vibration
- DC operation
- Spot Cooling for Industrial Lasers & Optics
- Thermoelectric Cooling for Projection Lasers

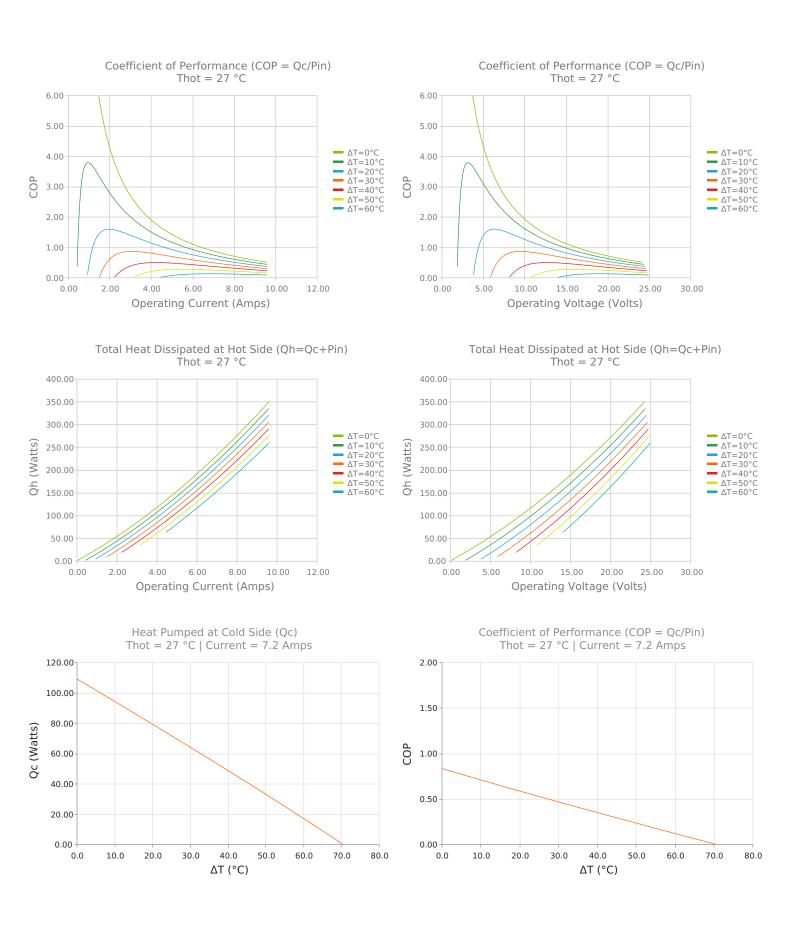


CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 0)	116.4 Watts	119.6 Watts	125.2 Watts
ΔTmax (Qc = 0)	71.7°C	74.8°C	80.4°C
lmax (I @ ΔTmax)	8.6 Amps	8.5 Amps	8.4 Amps
Vmax (V @ ΔTmax)	22.9 Volts	23.8 Volts	25.5 Volts
Module Resistance	2.52 Ohms	2.63 Ohms	2.84 Ohms
Max Operating Temperature	80 °C		
Weight	36.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness Flatness / Parallelism		Hot Face	Cold Face	Lead Length
ТА	3.810 ±0.025 mm 0.150 ± 0.001 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description	
	None			No sealing specified	

NOTES

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation
- 4. Recommended to be used with a liquid heat exchanger on the hot side

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Date: 03/26/2021