

## UltraTEC™ UTX Series Thermoelectric Cooler

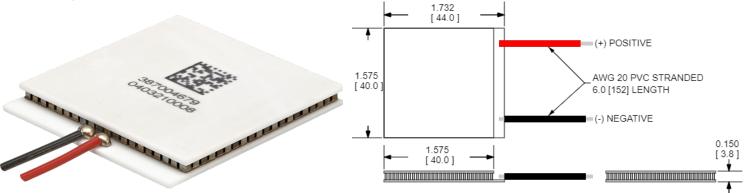
The UTX8-200-F2-4040-TA-W6 is a high-performance thermoelectric cooler that is assembled with advanced thermoelectric materials and can boost cooling capacity by up to 10%. The UltraTEC UTX Series features a higher thermal insulating barrier when compared to standard materials creating a maximum temperature differential ( $\Delta$ T) 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
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

### **Applications**

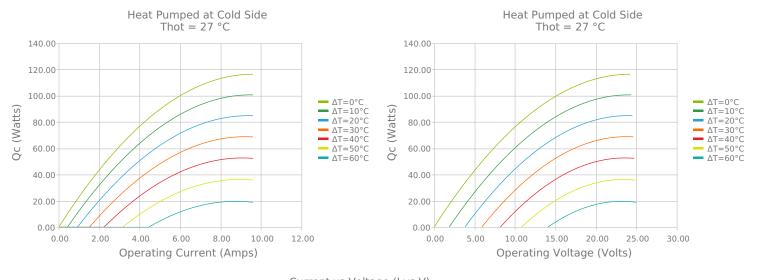
- Spot Cooling for Industrial Lasers & Optics
- Thermoelectric Cooling for Projection Lasers

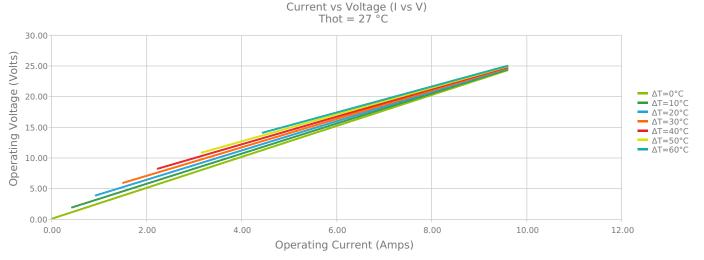


CERAMIC MATERIAL: Al<sub>2</sub>O₃ SOLDER CONSTRUCTION: 138°C, BiSn

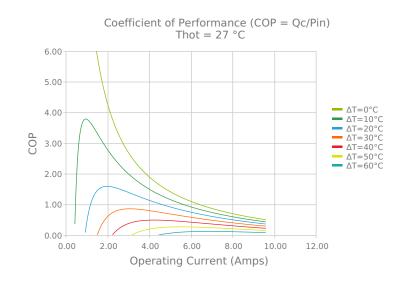
INCHES [ MM ]

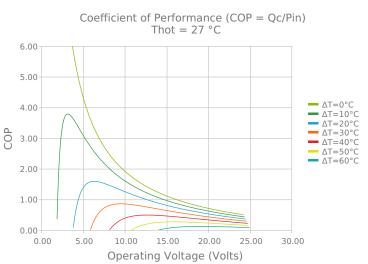
## **ELECTRICAL AND THERMAL PERFORMANCE**

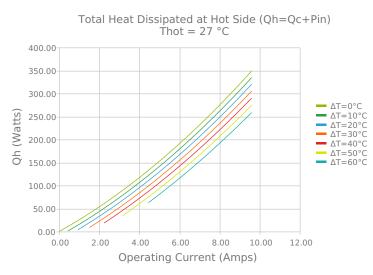


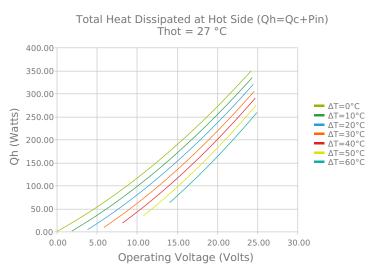


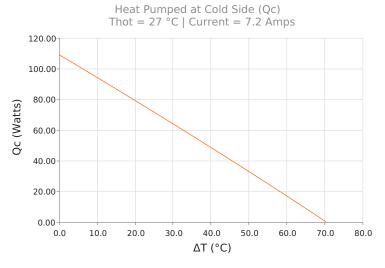


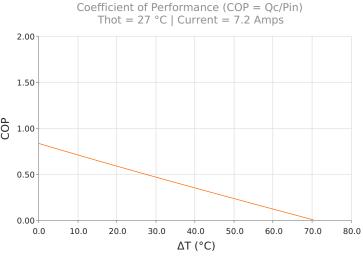














# **SPECIFICATIONS\***

Hot Side Temperature						
Qcmax ( $\Delta T = 0$ )						
$\Delta T max (Qc = 0)$						
Imax (I @ ΔTmax)						
Vmax (V @ ΔTmax)						
Module Resistance						
Max Operating Temperature						
Weight						

<sup>27.0 °</sup>C 35.0 °C 50.0 °C 116.4 Watts 119.6 Watts 125.2 Watts 71.7°C 74.8°C 80.4°C 8.6 Amps 8.5 Amps 8.4 Amps 22.9 Volts 23.8 Volts 25.5 Volts 2.52 Ohms 2.63 Ohms 2.84 Ohms 80 °C 36.0 gram(s)

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	<b>Lead Length</b>
ТА	3.810 ±0.025 mm 0.150 ± 0.0010 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	<b>Temp Range</b>	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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<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020