UltraTEC[™] UTX Series UTX8-288-F2-5252-TA-W6 MFG Part Number: 387004724

UltraTEC[™] UTX Series Thermoelectric Cooler

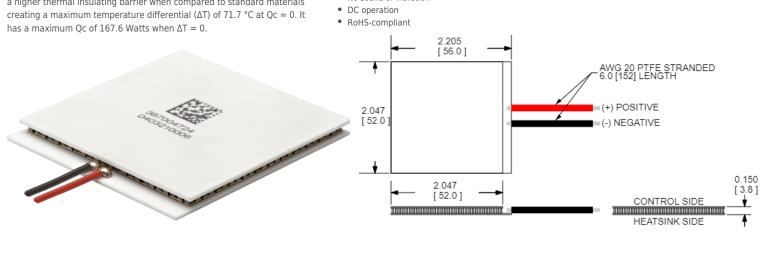
The UTX8-288-F2-5252-TA-W6 is a high-performance thermoelectric cooler that is assembled with advanced thermoelectric materials and can boost cooling capacity by up to 10%. The UltraTEC UTX Series features a higher thermal insulating barrier when compared to standard materials creating a maximum temperature differential (Δ T) of 71.7 °C at Qc = 0. It has a maximum Qc of 167.6 Watts when Δ T = 0.

Features

- High heat pump density
- Precise temperature control
- ily
- Reliable solid-state operationNo sound or vibration
- Spot Cooling for Industrial Lasers & Optics

Applications

• Thermoelectric Cooling for Projection Lasers

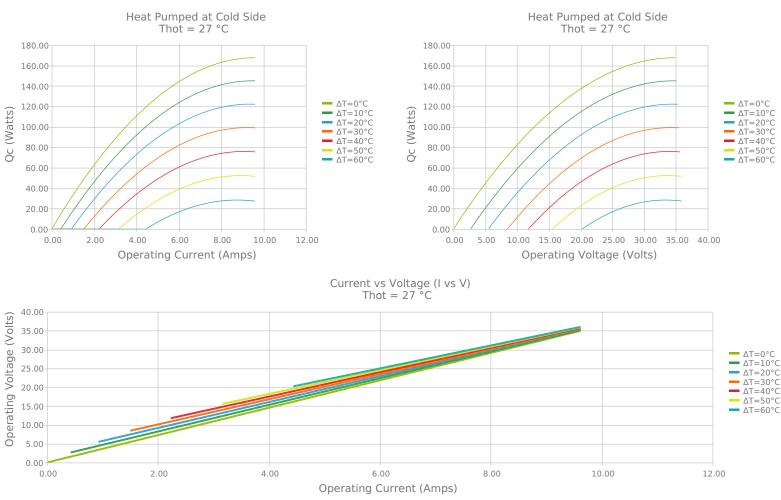


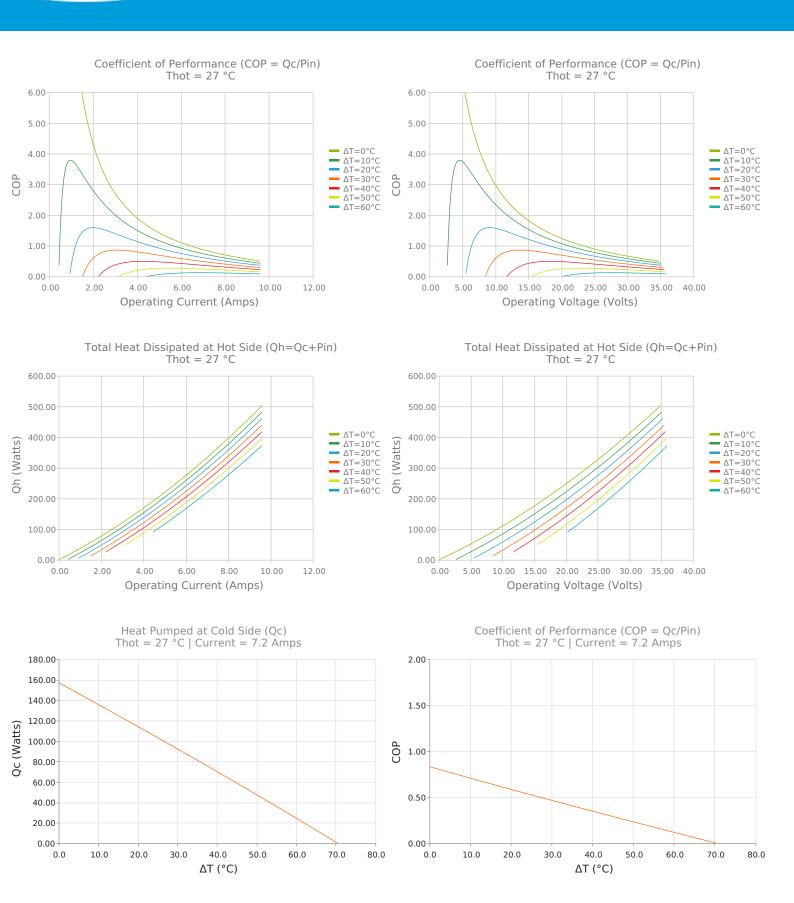
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 0)	167.6 Watts	172.2 Watts	180.3 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)	33.0 Volts	34.3 Volts	36.7 Volts
Module Resistance	3.63 Ohms	3.79 Ohms	4.09 Ohms
Max Operating Temperature	80 °C		
Weight	52.0 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 ± 0.0010 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	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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