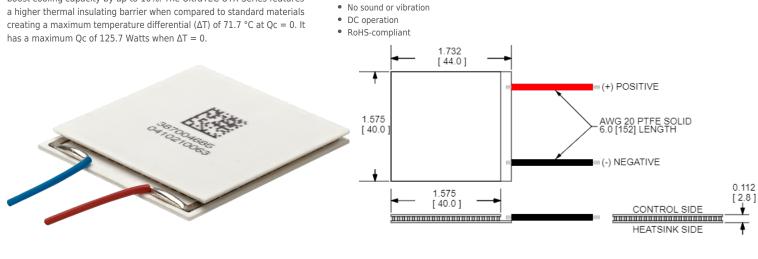
UltraTEC[™] UTX Series UTX15-12-F2-4040-TB-W6 **MFG Part Number: 387004688**

UltraTEC[™] UTX Series Thermoelectric Cooler

The UTX15-12-F2-4040-TB-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

Features

- High heat pump density
- Precise temperature control
- Reliable solid-state operation
- **Applications**
- Spot Cooling for Industrial Lasers & Optics • Thermoelectric Cooling for Projection Lasers

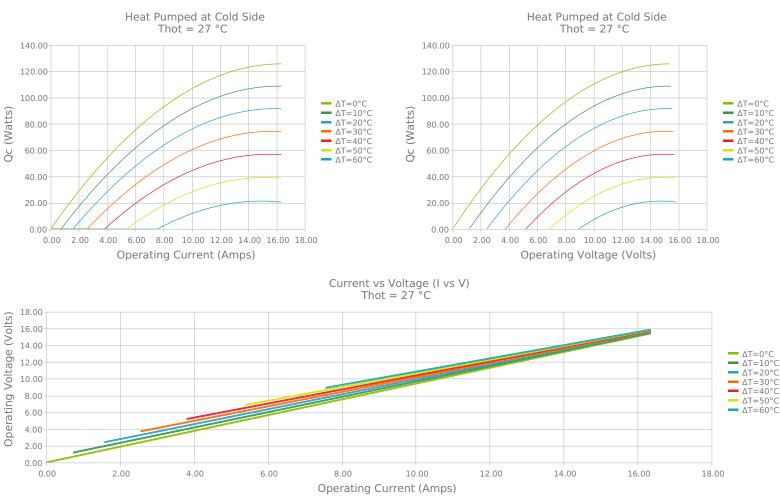


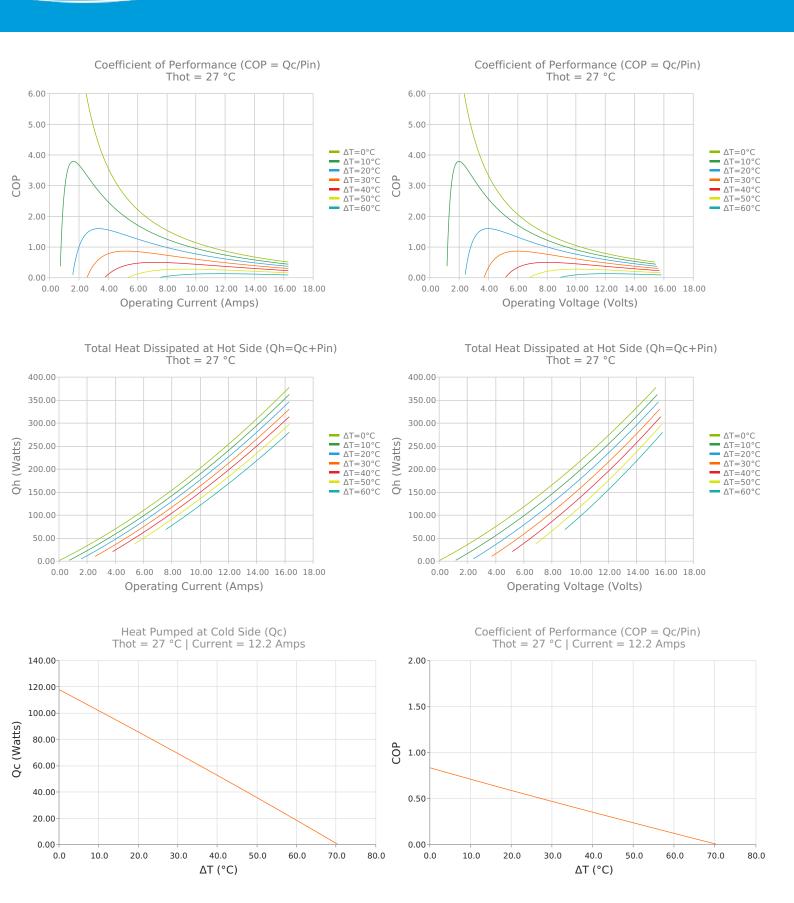
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

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)	125.7 Watts	129.2 Watts	135.2 Watts
ΔTmax (Qc = 0)	71.7°C	74.8°C	80.4°C
lmax (I @ ΔTmax)	14.6 Amps	14.4 Amps	14.2 Amps
Vmax (V @ ΔTmax)	14.6 Volts	15.1 Volts	16.2 Volts
Module Resistance	0.94 Ohms	0.98 Ohms	1.06 Ohms
Max Operating Temperature	80 °C		
Weight	20.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	2.845 ±0.013 mm 0.112 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 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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Revision: 01 Date: 06-07-2023

Print Date: 06-08-2023