UltraTEC[™] UTX Series UTX15-288-F2-5252-TB-RT-W6 **MFG Part Number: 387004693**

UltraTEC[™] UTX Series Thermoelectric Cooler

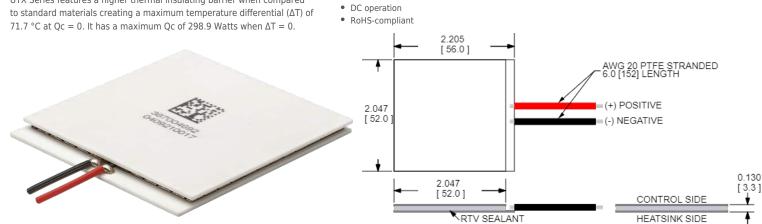
The UTX15-288-F2-5252-TB-RT-W6 is a high-performance thermoelectric cooler that is assembled with advanced thermoelectric materials and can boost cooling capacity by up to 10%. The UltraTEC UTX Series features a higher thermal insulating barrier when compared

Features

- High heat pump density
- Precise temperature control • Reliable solid-state operation No sound or vibration

Applications

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



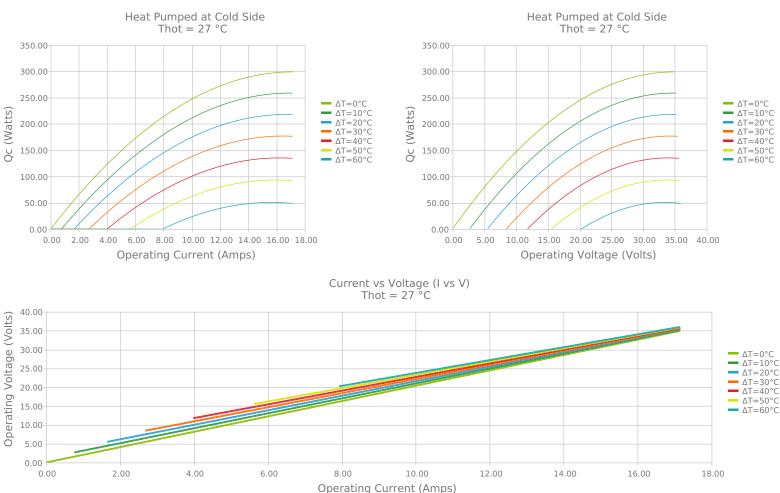
CERAMIC MATERIAL: Al2O3

INCHES [MM]

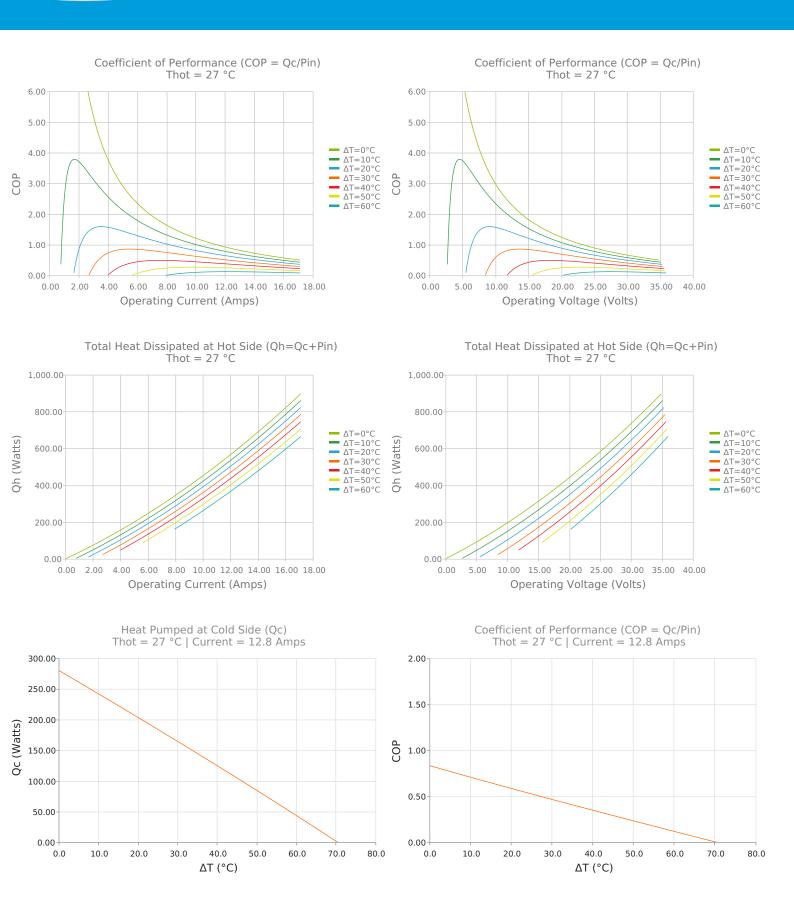
SOLDER CONSTRUCTION: 138°C, BiSn Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

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.



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SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	298.9 Watts	307.2 Watts	321.6 Watts
ΔTmax (Qc = 0)	71.7°C	74.8°C	80.4°C
lmax (I @ ΔTmax)	15.3 Amps	15.2 Amps	14.9 Amps
Vmax (V @ ΔTmax)	33.0 Volts	34.3 Volts	36.7 Volts
Module Resistance	2.04 Ohms	2.13 Ohms	2.29 Ohms
Max Operating Temperature	80 °C		
Weight	53.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	3.300 ±0.013 mm 0.130 ± 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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

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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