UltraTEC[™] UTX Series UTX11-12-F2-3030-TB-W6 MFG Part Number: 387004681

UltraTEC[™] UTX Series Thermoelectric Cooler

The UTX11-12-F2-3030-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 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 95.2 Watts when $\Delta T = 0$.

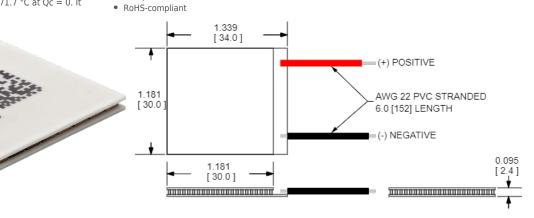




- Precise temperature control
- **Applications** • Spot Cooling for Industrial Lasers & Optics



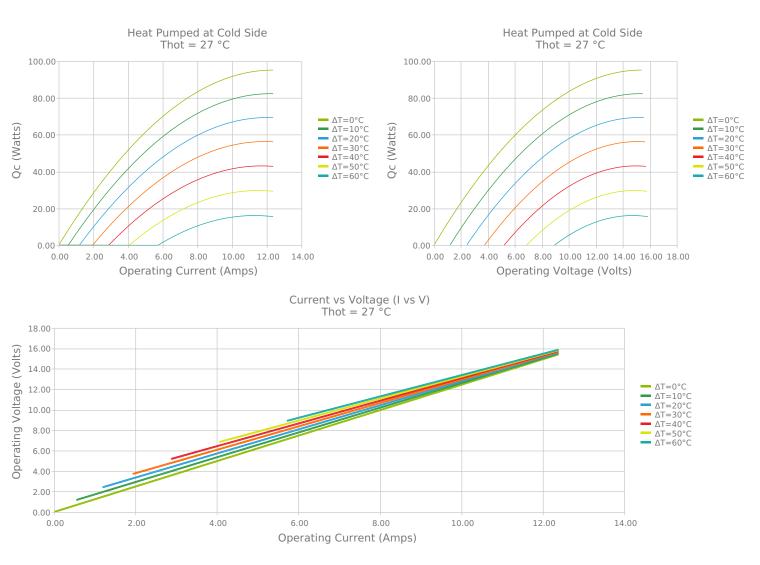
• Thermoelectric Cooling for Projection Lasers

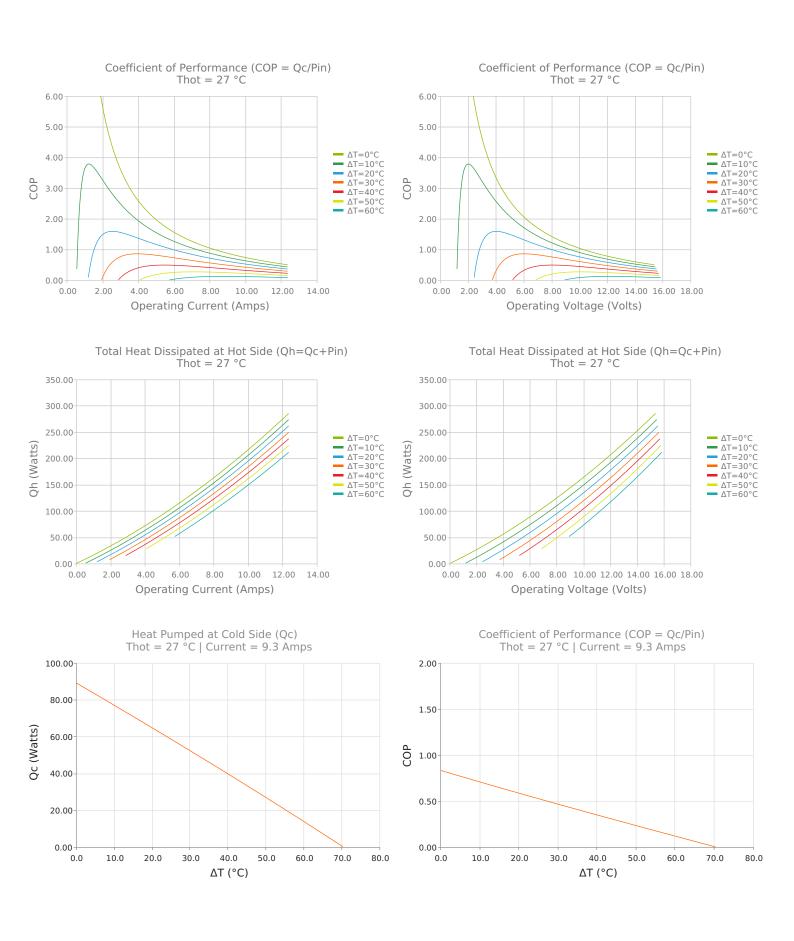


CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 0)	95.2 Watts	97.8 Watts	102.4 Watts
ΔTmax (Qc = 0)	71.7°C	74.8°C	80.4°C
lmax (I @ ΔTmax)	11.0 Amps	10.9 Amps	10.8 Amps
Vmax (V @ ΔTmax)	14.6 Volts	15.1 Volts	16.2 Volts
Module Resistance	1.24 Ohms	1.30 Ohms	1.40 Ohms
Max Operating Temperature	80 °C		
Weight	11.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	2.413 ±0.013 mm 0.095 ± 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

Any information furnished by Laird and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Laird. All specifications are subject to change without notice. Laird assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Laird products are sold subject to the Laird Terms and Conditions of sale (including Laird's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2021 Laird Thermal Systems, Inc. All rights reserved. Laird[™], the Laird Ring Logo, and Laird Thermal Systems[™] are trademarks or registered trademarks of Laird Limited or its subsidiaries.

UltraTEC[™] is a trademark of Laird Thermal Systems, Inc. All other marks are owned by their respective owners.

Date: 08/24/2021