

UltraTEC™ UT Series Thermoelectric Cooler

Note: This product is not recommended for new designs.

This product series has been replaced with the UltraTEC UTX Series product offering.

The recommended replacement is:

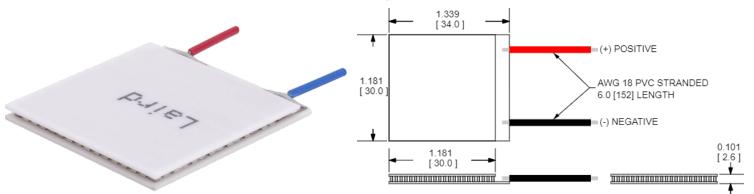
Description: UTX8-12-F2-3030-11-W6

Features

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

Applications

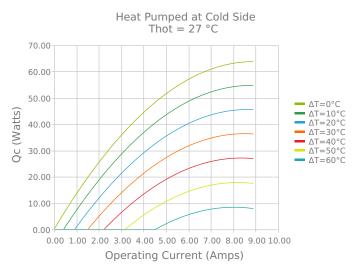
- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

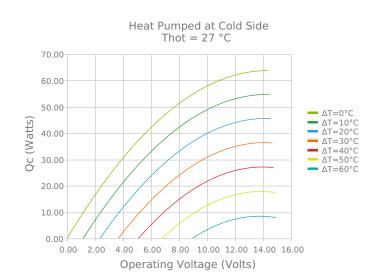


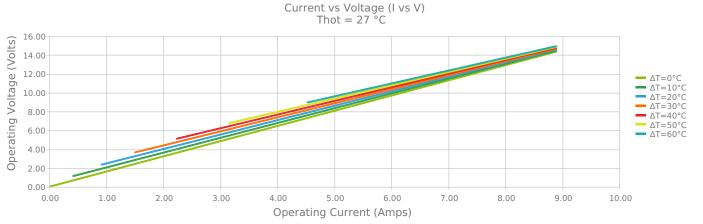
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

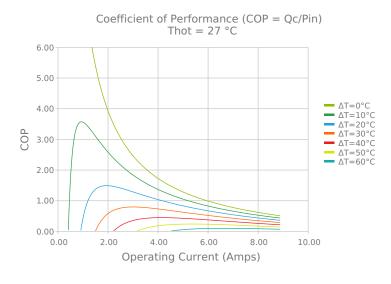
ELECTRICAL AND THERMAL PERFORMANCE

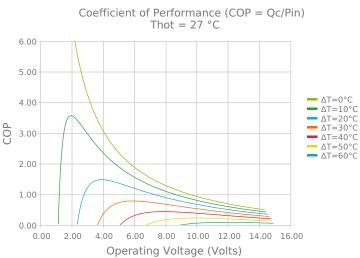


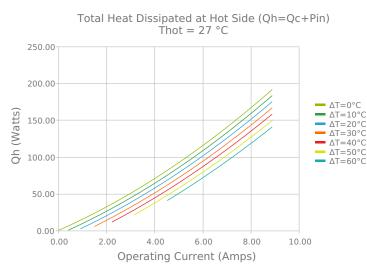


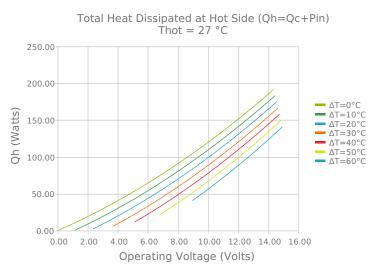


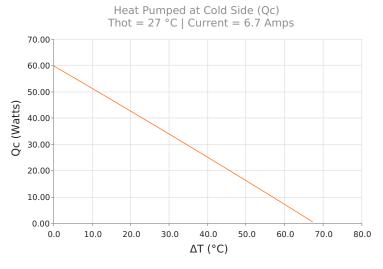


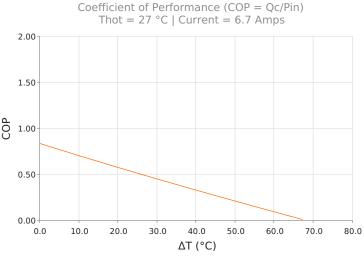














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ ATmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
63.8 Watts	65.8 Watts	69.2 Watts
68.9°C	71.8°C	77.0°C
7.9 Amps	7.8 Amps	7.8 Amps
13.6 Volts	14.2 Volts	15.1 Volts
1.61 Ohms	1.68 Ohms	1.81 Ohms
80 °C		
11.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
TA 2.565 ±0.025 mm 0.101 ± 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

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Date: 01/08/2022

^{*} Specifications reflect thermoelectric coefficients updated March 2020