

UltraTEC™ UT Series Thermoelectric Cooler

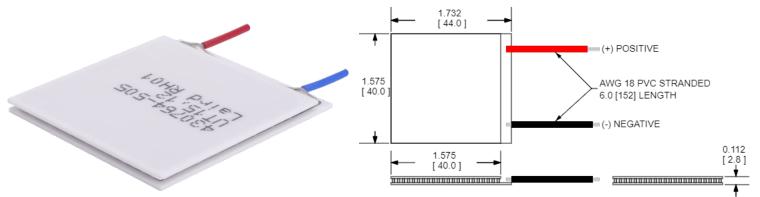
This product has reached end of production and is available on a limited basis only. This product series has been replaced with the UltraTEC UTX Series product offering. Consider using the UTX15-12-F2-4040-TA-W6 UltraTEC UTX Series module as a replacement.

Features

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

Applications

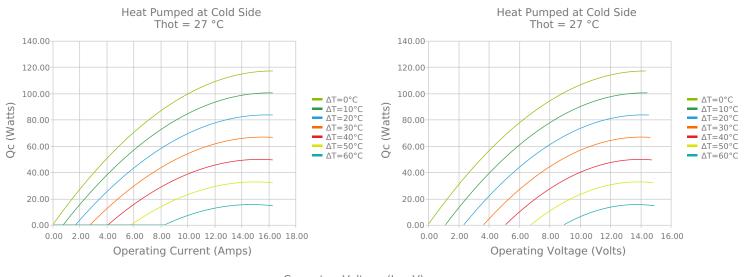
- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

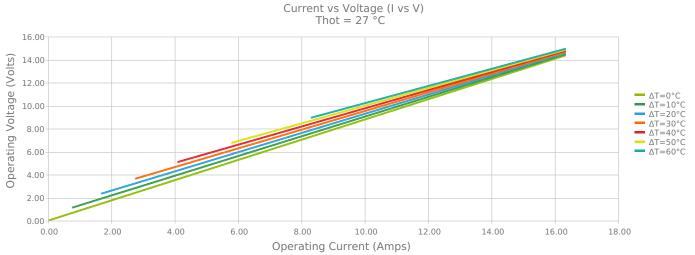


CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

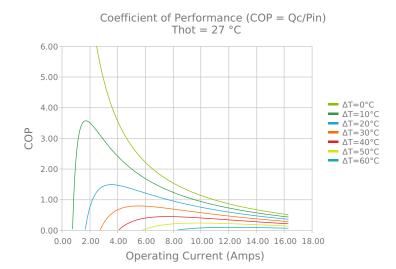
INCHES [MM]

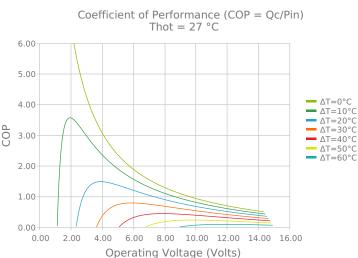
ELECTRICAL AND THERMAL PERFORMANCE

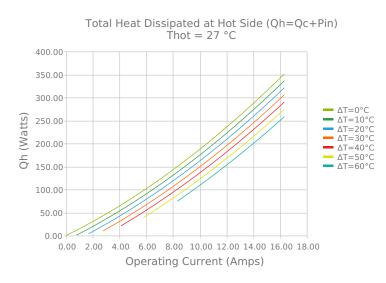


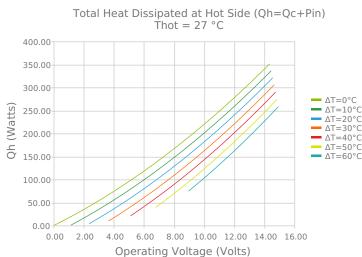


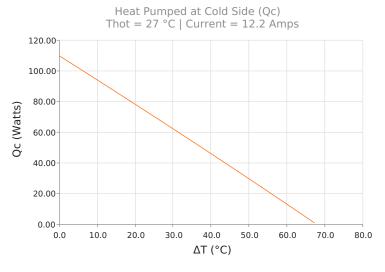


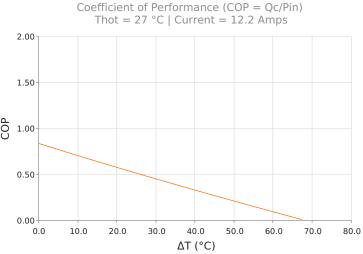












Legacy Product



SPECIFICATIONS*

Hot Side Temperature

not side remperature	
Qcmax ($\Delta T = 0$)	
$\Delta T max (Qc = 0)$	

Vmax (V @ \Darmax)

Imax (I @ \Darkstrum \

Module Resistance

Max Operating Temperature

Weight

^{*} Specifications reflect thermoelectric coefficients updated March 2020

27.0 °C	35.0 °C	50.0 °C
117.1 Watts	120.7 Watts	126.9 Watts
68.9°C	71.8°C	77.0°C
14.4 Amps	14.4 Amps	14.2 Amps
13.6 Volts	14.2 Volts	15.1 Volts
0.88 Ohms	0.92 Ohms	0.98 Ohms
80 °C		
20.0 gram(s)		

FINISHING OPTIONS

	Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
TB 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

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Date: 08/30/2021