

UltraTEC™ UT Series Thermoelectric Cooler

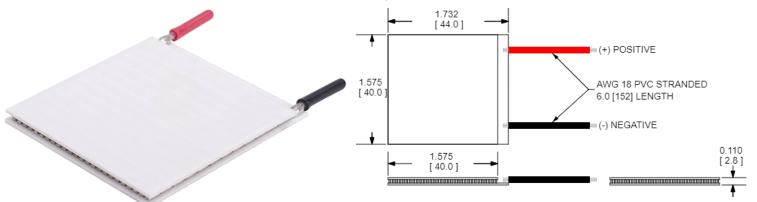
Note: This product has reached end of production and is available on a limited basis only. This product series has been replaced with the UltraTEC UTX Series product offering. Consider using the 387004723 / UTX9-28-F2-4040-TA-W6 UltraTEC UTX Series module as a replacement.

Features

- High heat pump density
- Precise temperature control
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

Applications

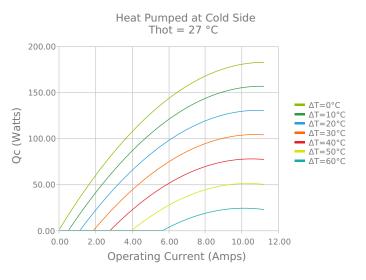
- Thermoelectric Coolers and Assemblies for Medical Applications
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Industrial Laser Cooling
- Peltier Cooling for Digital Light Processors

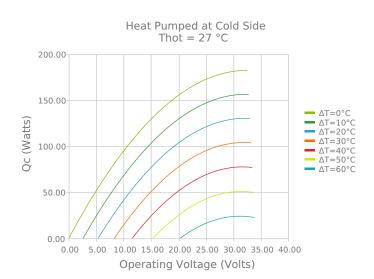


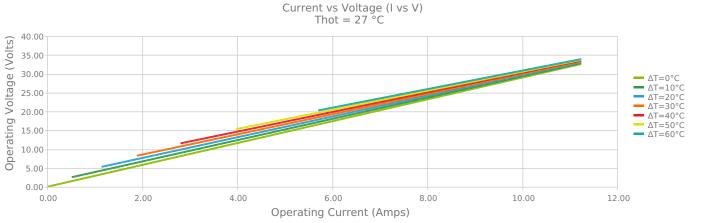
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

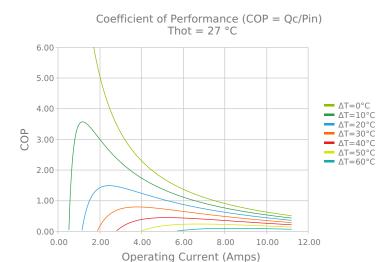
ELECTRICAL AND THERMAL PERFORMANCE

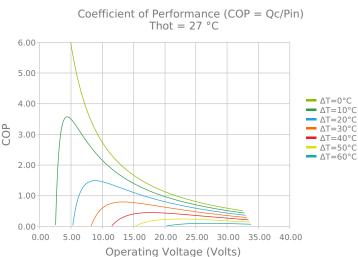


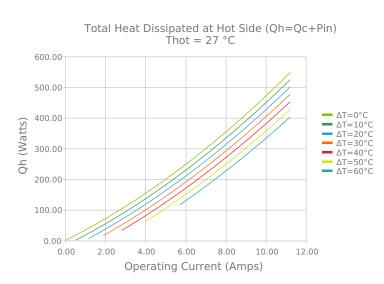


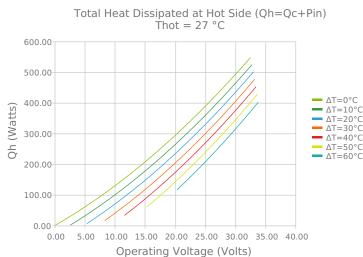


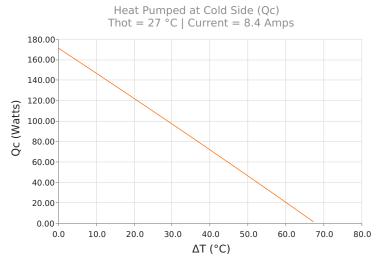


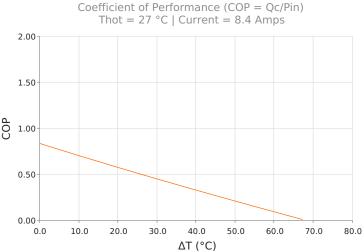














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

^{*} Specifications reflect thermoelectric coefficients updated March 2020

27.0 °C	35.0 °C	50.0 °C
182.6 Watts	188.2 Watts	198.0 Watts
68.9°C	71.8°C	77.0°C
9.9 Amps	9.9 Amps	9.8 Amps
30.9 Volts	32.1 Volts	34.3 Volts
2.90 Ohms	3.02 Ohms	3.25 Ohms
80 °C		
24.0 gram(s)		

FINISHING OPTIONS

Suffix	x Thickness Flatness / Parallelism		Hot Face	Cold Face	Lead Length	
TA 2.800 ±0.025 mm 0.110 ± 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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