UltraTEC™ UT Series UT15-200-F2-4040-TB-W6
MFG Part Number: 430856-504
Legacy Product

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.

The recommended replacement is:

MFG Part Number: 387004717

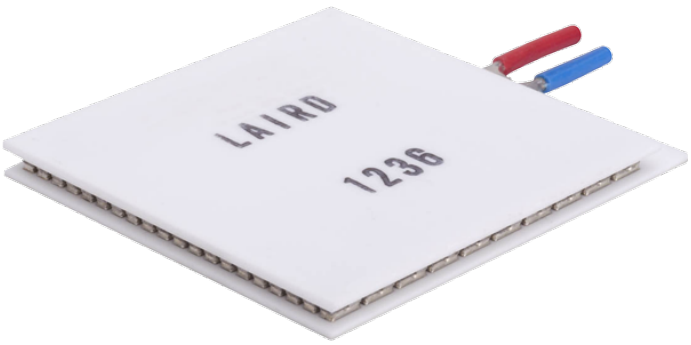
Description: UTX15-200-F2-4040-TB-W6

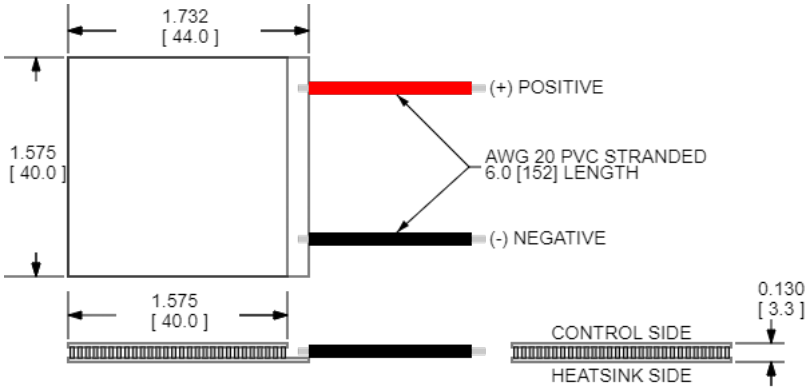
Features

- High heat pump density
- Precise temperature control
- Reliable solid-state operation
- No 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





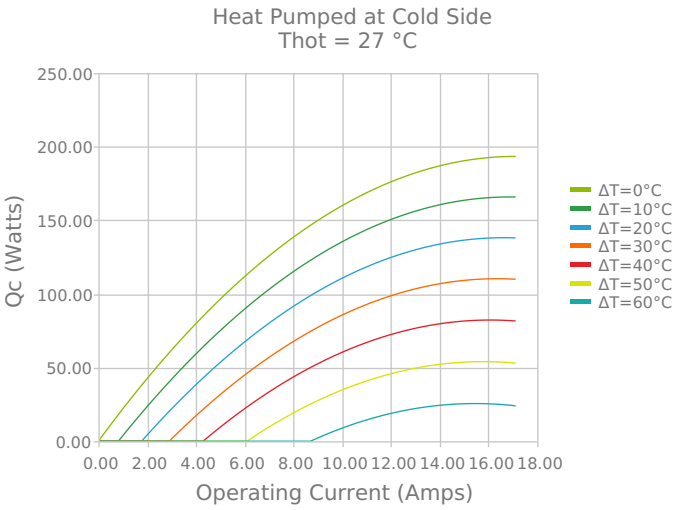
CERAMIC MATERIAL: Al_2O_3

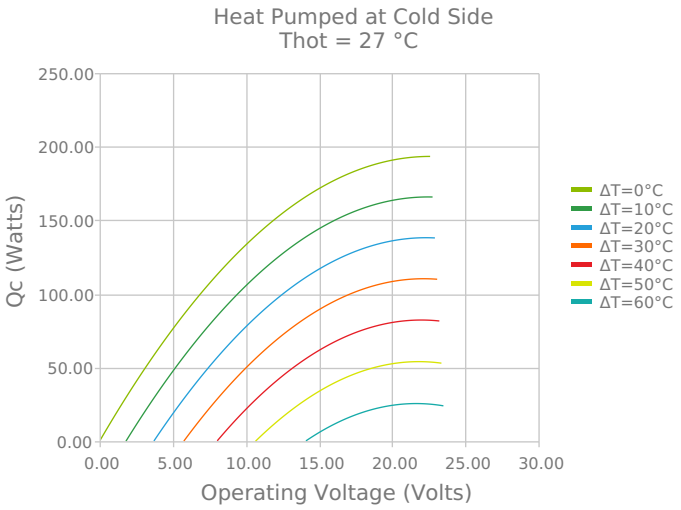
SOLDER CONSTRUCTION: 138°C, BiSn

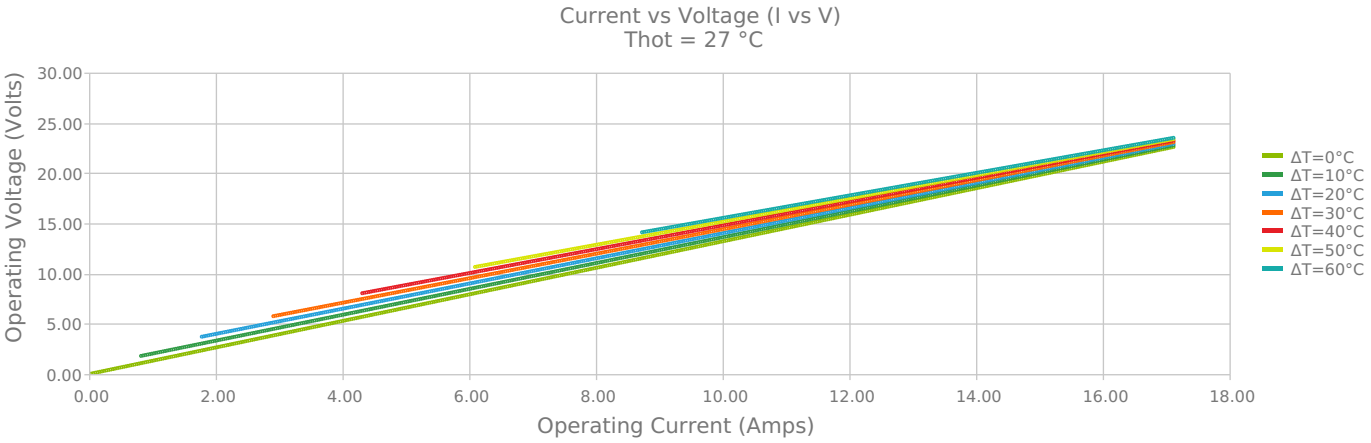
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

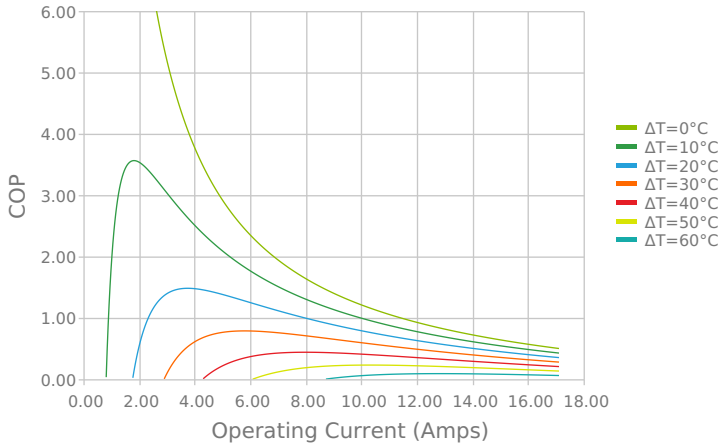
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.



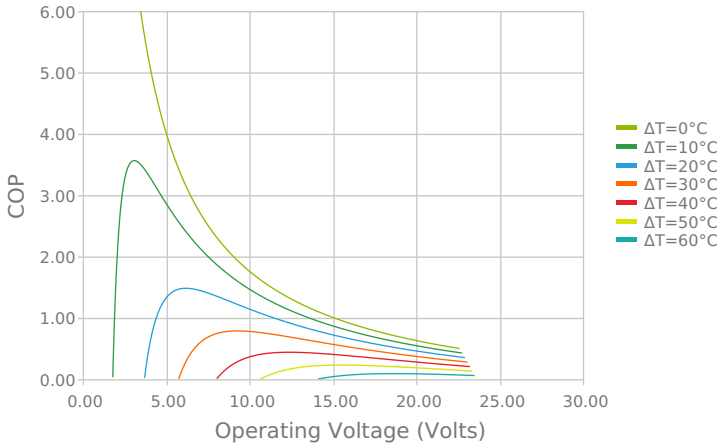




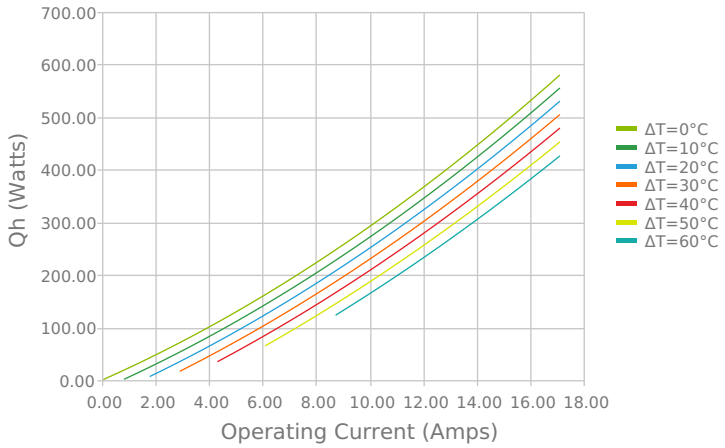
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



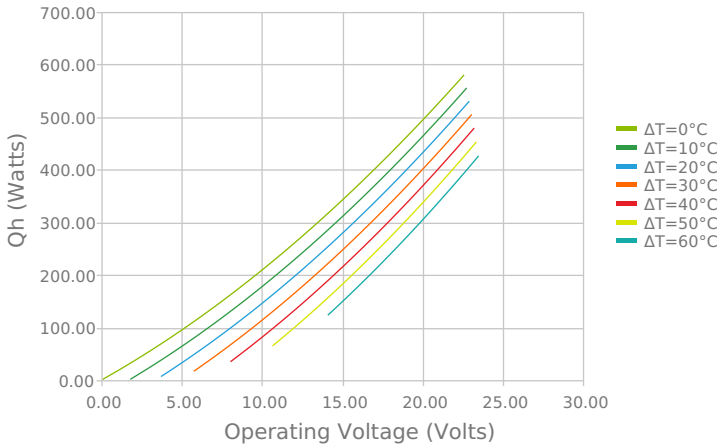
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



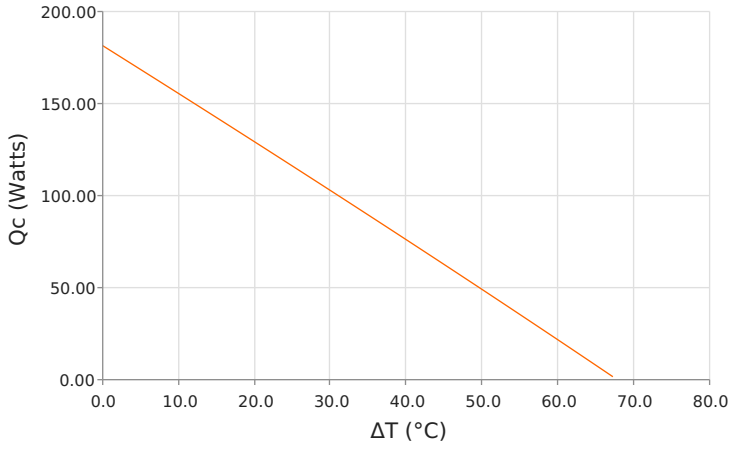
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



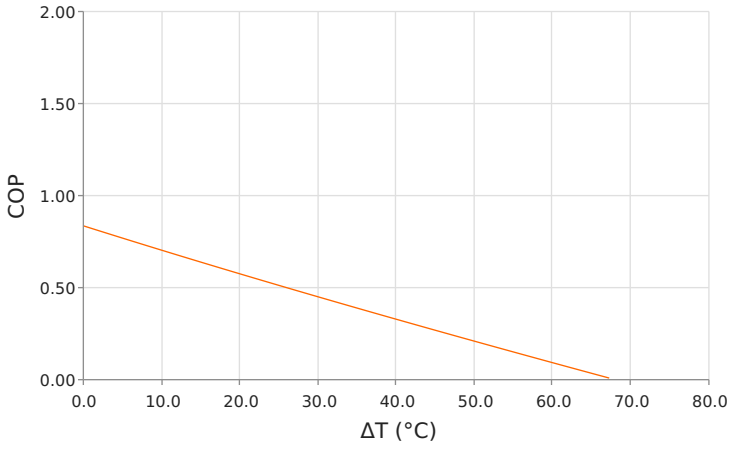
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



Heat Pumped at Cold Side (Qc)
Thot = 27 °C | Current = 12.8 Amps



Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C | Current = 12.8 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 0)	193.4 Watts	199.3 Watts	209.7 Watts
ΔTmax (Qc = 0)	68.9°C	71.8°C	77.0°C
Imax (I @ ΔTmax)	15.2 Amps	15.1 Amps	14.9 Amps
Vmax (V @ ΔTmax)	21.5 Volts	22.3 Volts	23.8 Volts
Module Resistance	1.32 Ohms	1.38 Ohms	1.48 Ohms
Max Operating Temperature	80 °C		
Weight	36.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

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