HiTemp ET Series ET20-68-F1A-1313-GG-W2.25
MFG Part Number: 430548-503
Legacy Product

HiTemp ET Series Thermoelectric Cooler

Note:* *This product is not recommended for new designs.

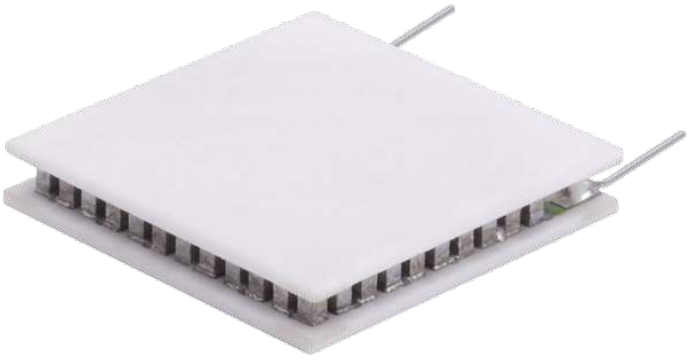
This product series has been replaced with the HiTemp ETX Series. Currently there is no standard HiTemp ETX Series replacement for this part. Contact Sales for available options.

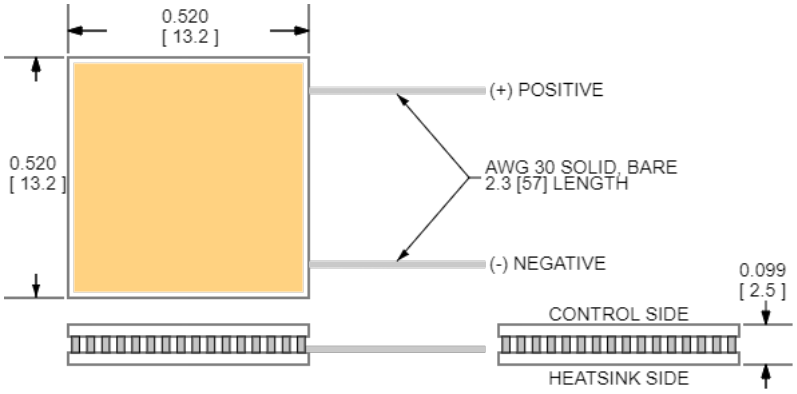
Features

- High-temperature operation
- Reliable solid-state
- No sound or vibration
- Environmentally-friendly
- RoHS-compliant

Applications

- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital
- Light Processors



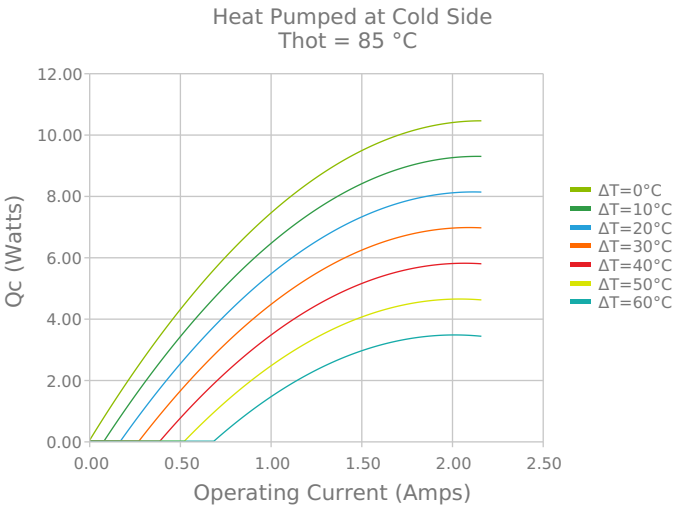


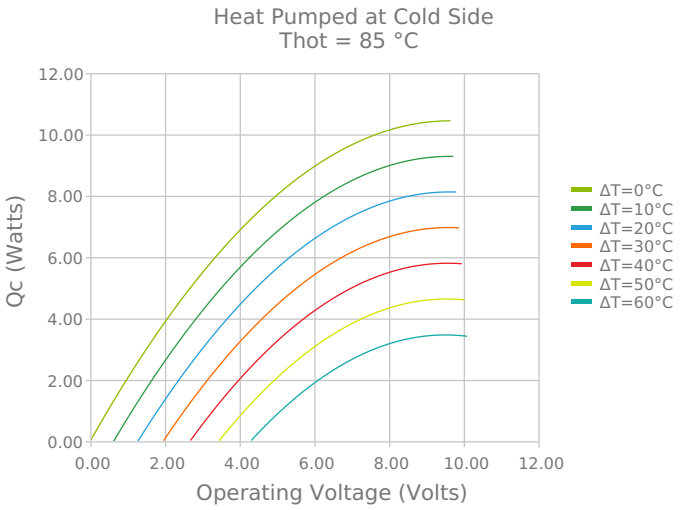
CERAMIC MATERIAL: Al_2O_3
SOLDER CONSTRUCTION: 232°C, SbSn

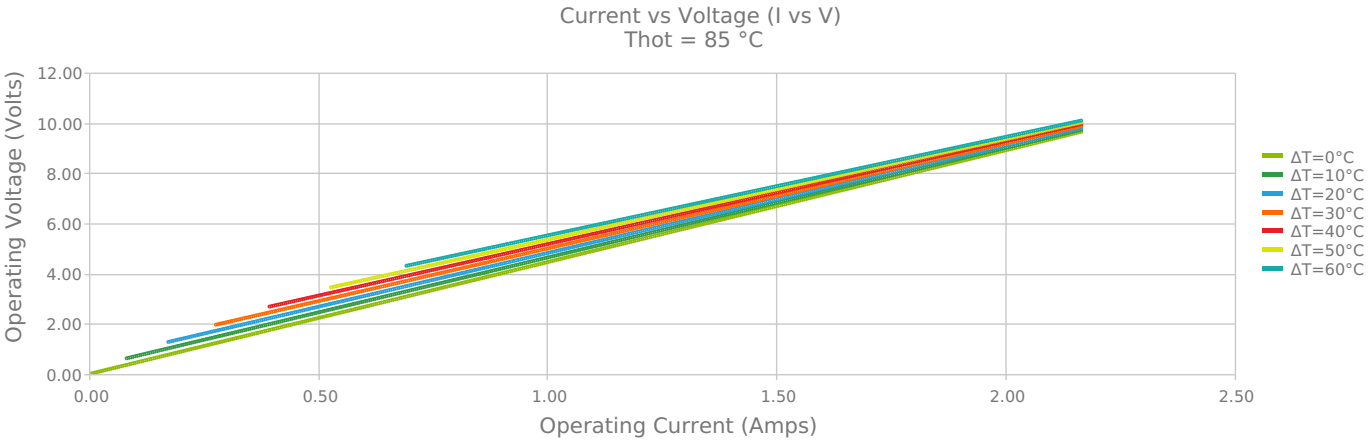
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

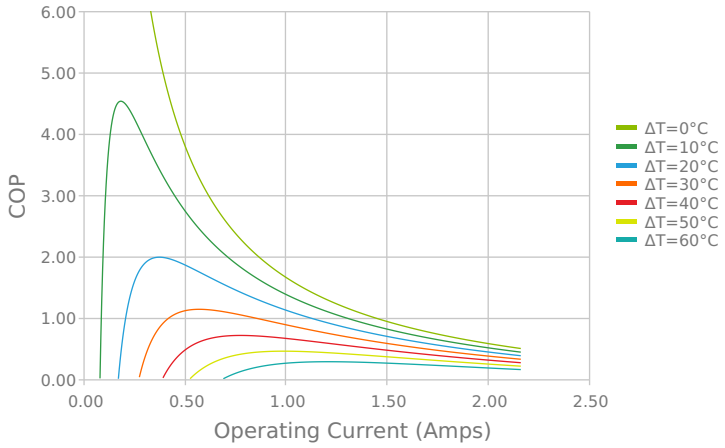
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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







Coefficient of Performance (COP = Qc/Pin)
Thot = 85 °C



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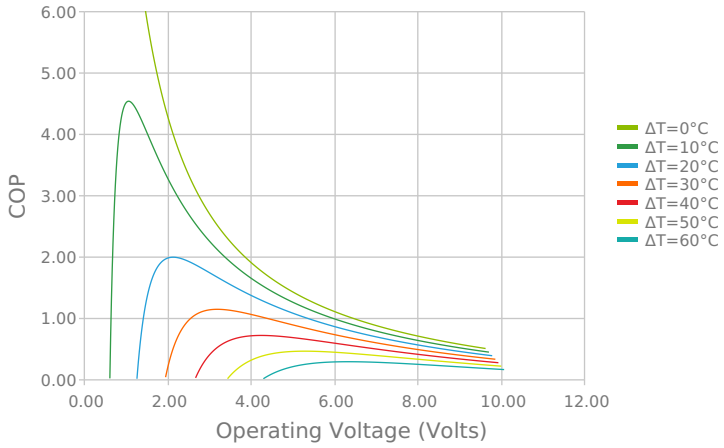
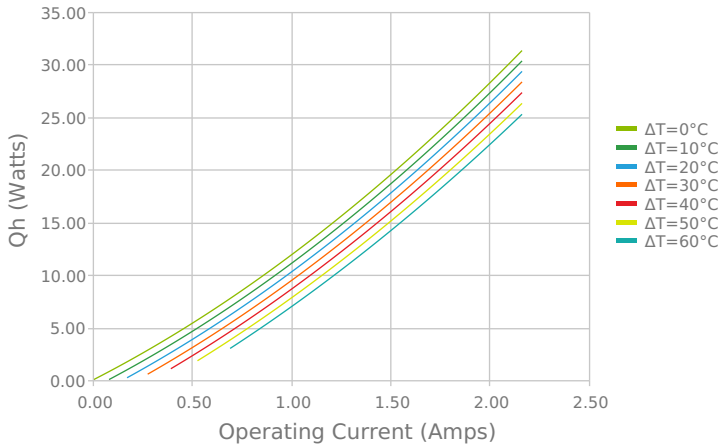


Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 85 °C



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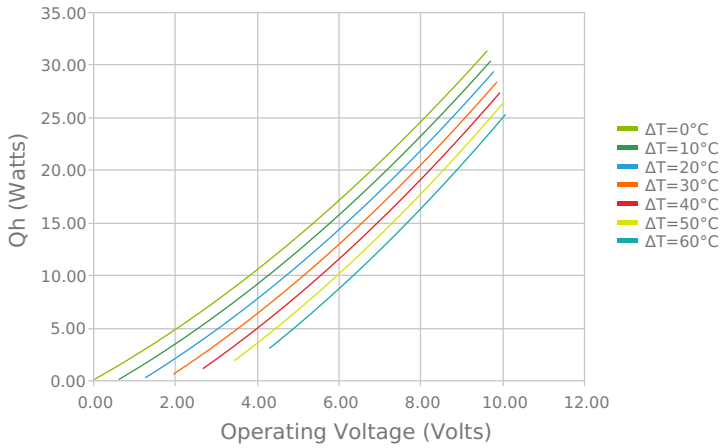
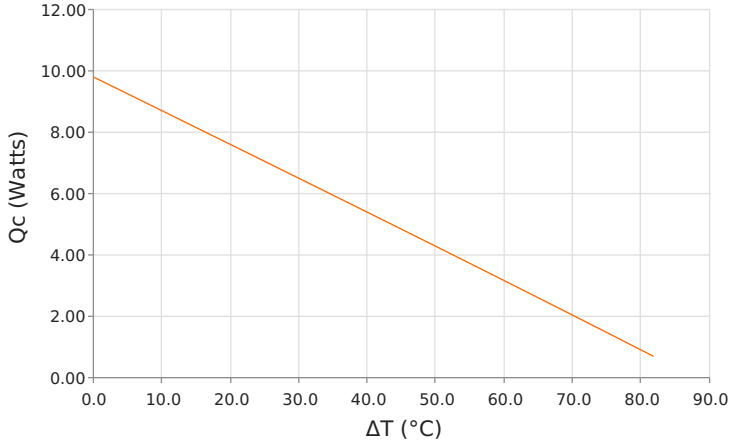
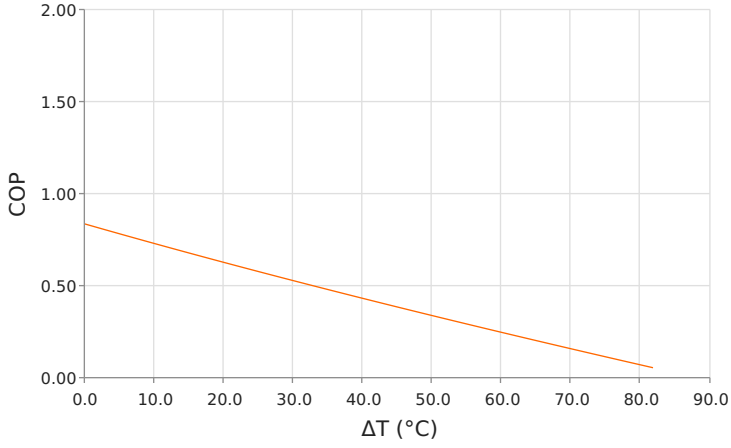


Heat Pumped at Cold Side (Qc)
Thot = 85 °C | Current = 1.6 Amps



Coefficient of Performance (COP = Qc/Pin)
Thot = 85 °C | Current = 1.6 Amps



SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax (ΔT = 0)	9.5 Watts	10.4 Watts	10.9 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
Imax (I @ ΔTmax)	2.0 Amps	1.9 Amps	1.9 Amps
Vmax (V @ ΔTmax)	8.2 Volts	9.4 Volts	10.2 Volts
Module Resistance	3.83 Ohms	4.45 Ohms	4.87 Ohms
Max Operating Temperature	150 °C		
Weight	2.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	2.515 ±0.127 mm 0.099 ± 0.0050 in	N/A / N/A	Au Plated	Au Plated	50.8 mm 2.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

1. Max operating temperature: 150°C
2. Do not exceed Imax or Vmax when operating module
3. Reference assembly guidelines for recommended installation

Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022