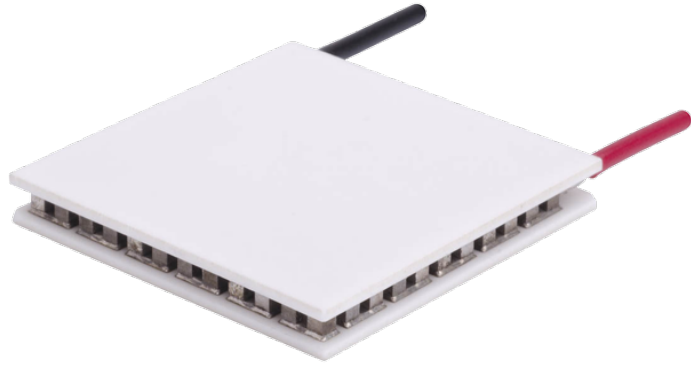


ZT Series Thermoelectric Cooler

Note: This product is not recommended for new designs.
 This product series has been replaced with the HiTemp ETX Series.
 The recommended replacement is:
 Description: ETX6-7-F1-3030-TA-W8

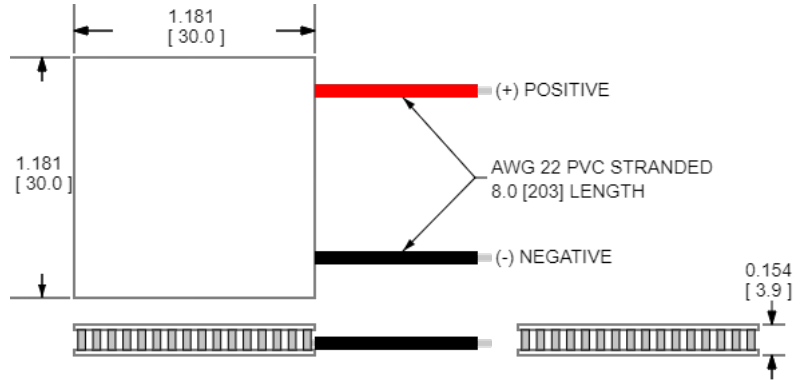


Features

- High temperature differential
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- DC operation
- 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

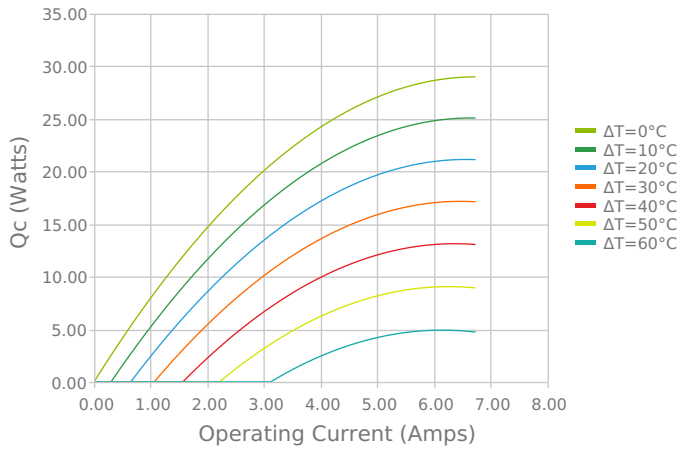


CERAMIC MATERIAL: Al₂O₃
 SOLDER CONSTRUCTION: 138°C, BiSn

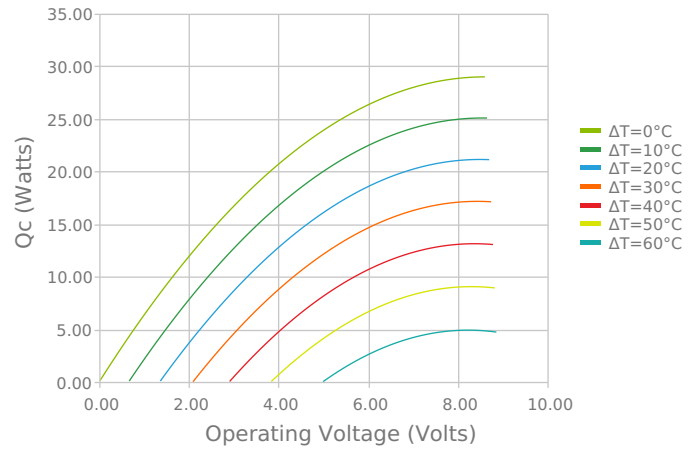
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

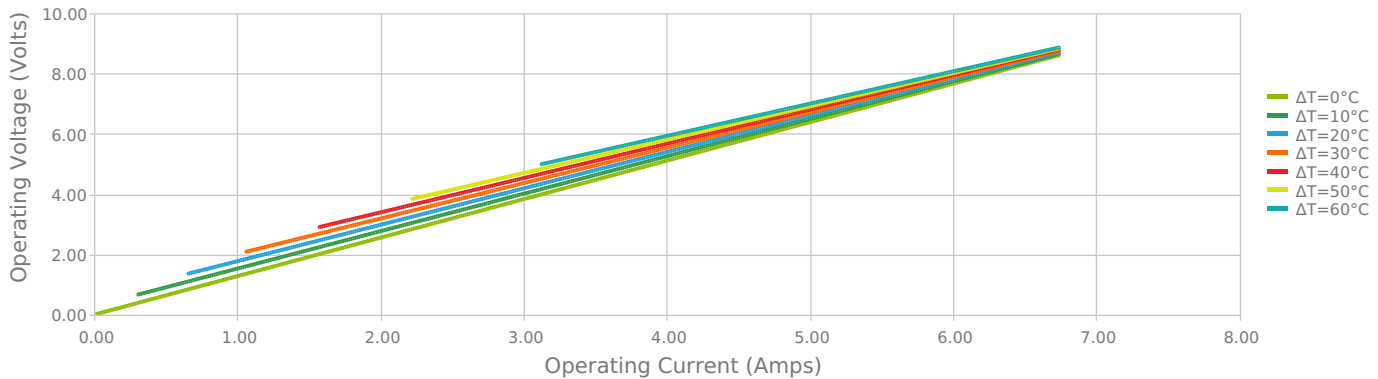
Heat Pumped at Cold Side
 Thot = 27 °C



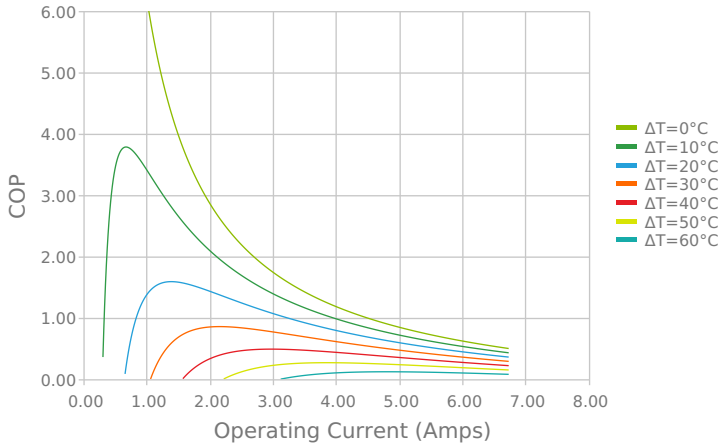
Heat Pumped at Cold Side
 Thot = 27 °C



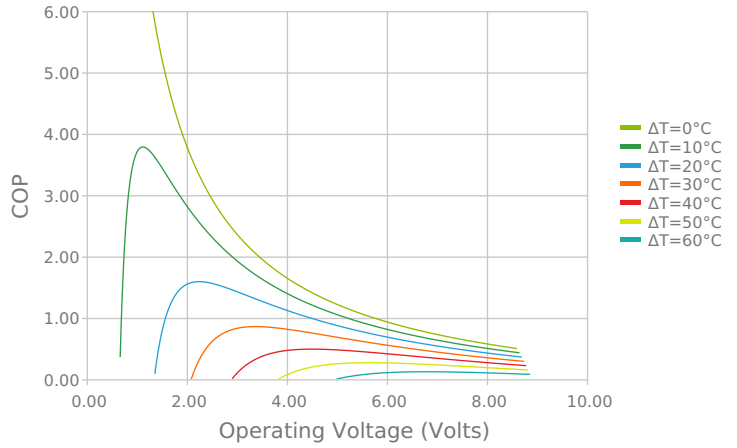
Current vs Voltage (I vs V)
 Thot = 27 °C



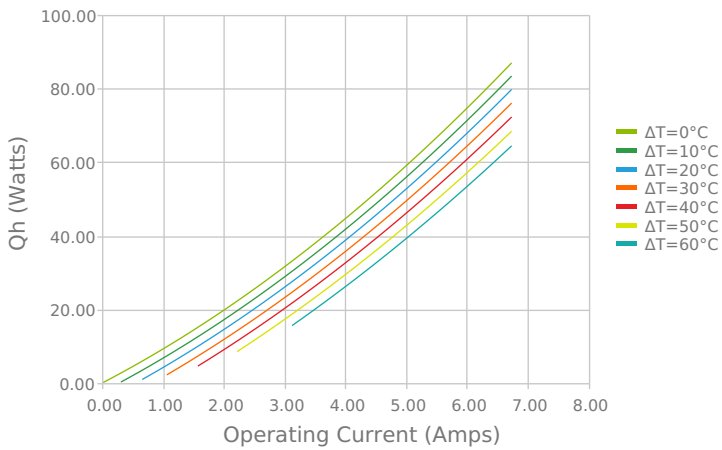
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



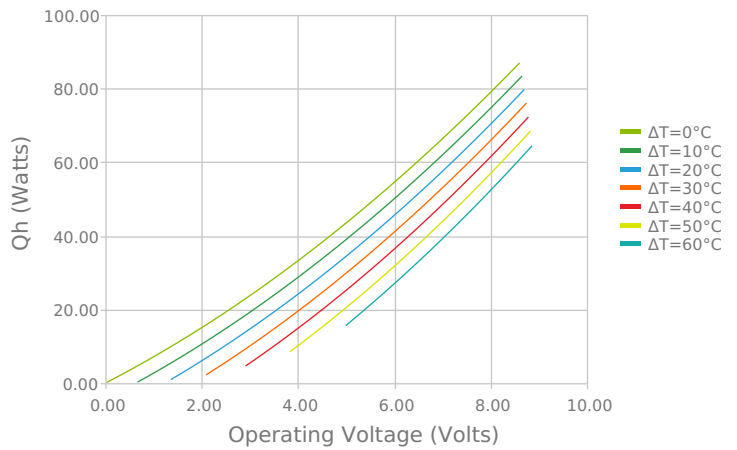
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



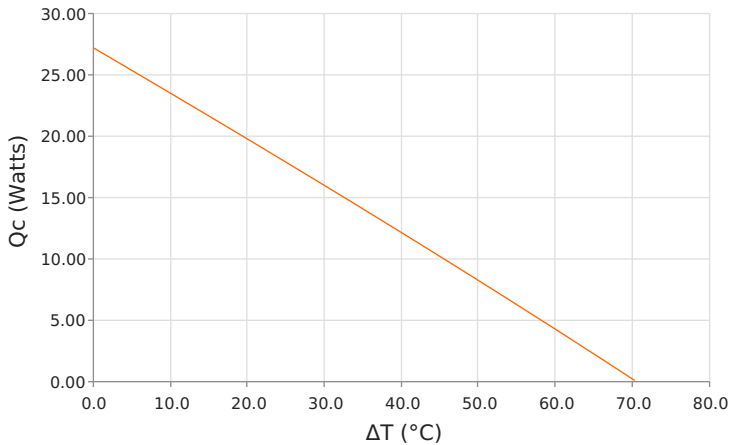
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



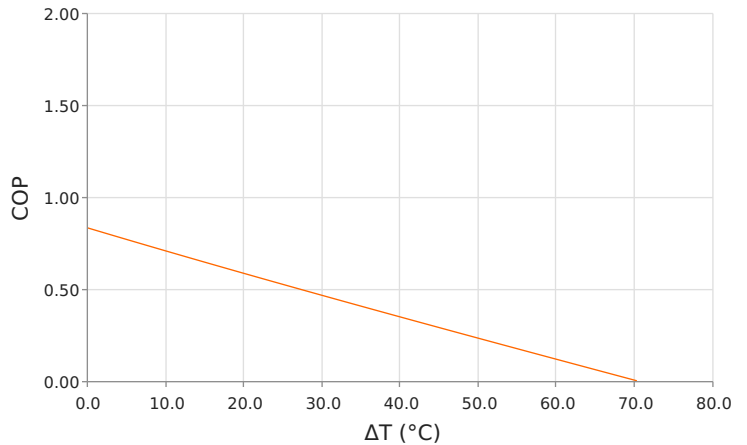
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



Heat Pumped at Cold Side (Qc)
Thot = 27 °C | Current = 5.1 Amps



Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C | Current = 5.1 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax ($\Delta T = 0$)	29.0 Watts	29.8 Watts	31.2 Watts
ΔT_{max} ($Q_c = 0$)	71.7°C	74.8°C	80.4°C
I_{max} (I @ ΔT_{max})	6.0 Amps	6.0 Amps	5.9 Amps
V_{max} (V @ ΔT_{max})	8.1 Volts	8.5 Volts	9.0 Volts
Module Resistance	1.28 Ohms	1.33 Ohms	1.44 Ohms
Max Operating Temperature	80 °C		
Weight	13.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
TA	3.910 ±0.025 mm 0.154 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	203.2 mm 8.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

1. Max operating temperature: 80°C
2. Do not exceed I_{max} or V_{max} when operating module
3. Reference assembly guidelines for recommended installation

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Date: 01/08/2022