

OptoTEC™ OT Series Thermoelectric Cooler

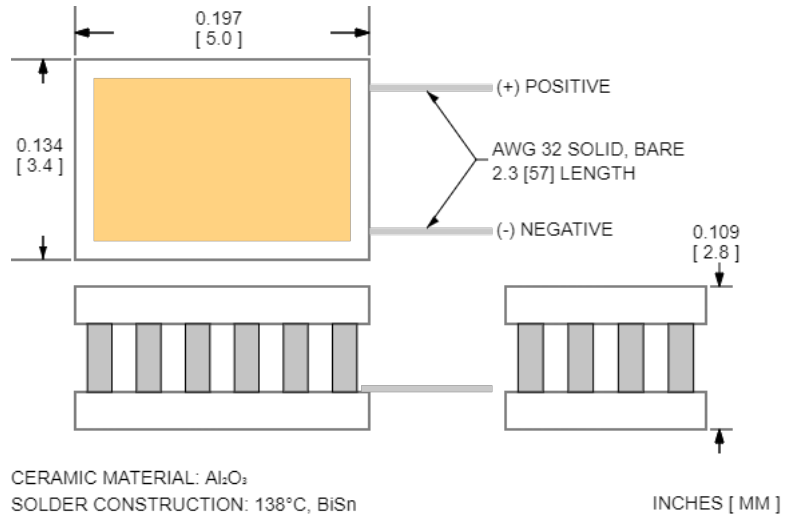
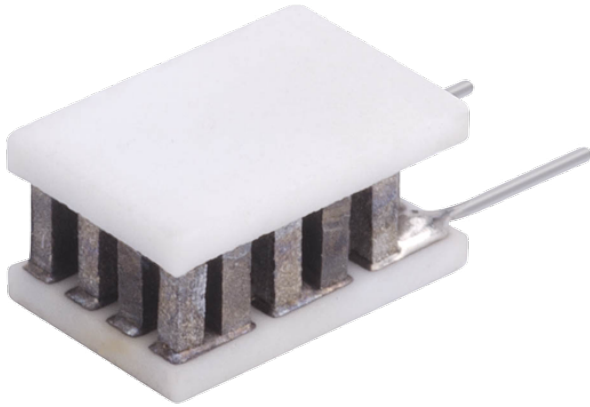
Note: This product has reached end of production and is available on a limited basis only. This product series has been replaced with the OptoTEC™ OTX Series product offering. Consider using the 387006643 / OTX08-11-F1-0305-GG-W2.25 OptoTEC™ OTX Series module as a replacement.

Features

- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- DC operation
- RoHS-compliant

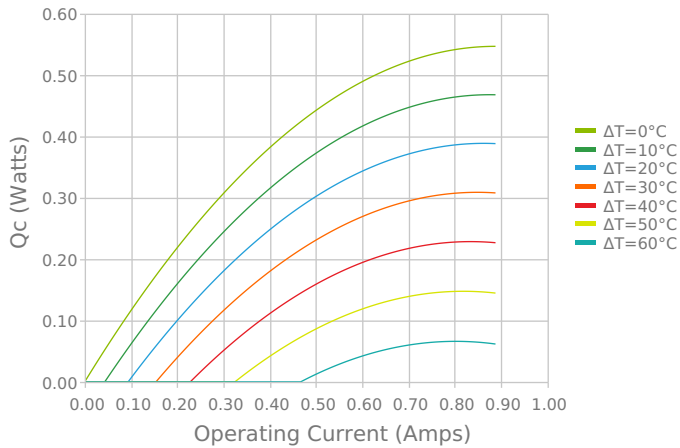
Applications

- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Heads-Up Displays, Imaging Sensors

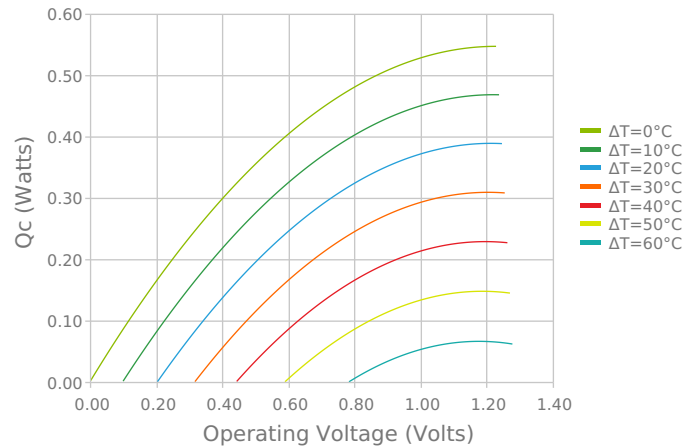


ELECTRICAL AND THERMAL PERFORMANCE

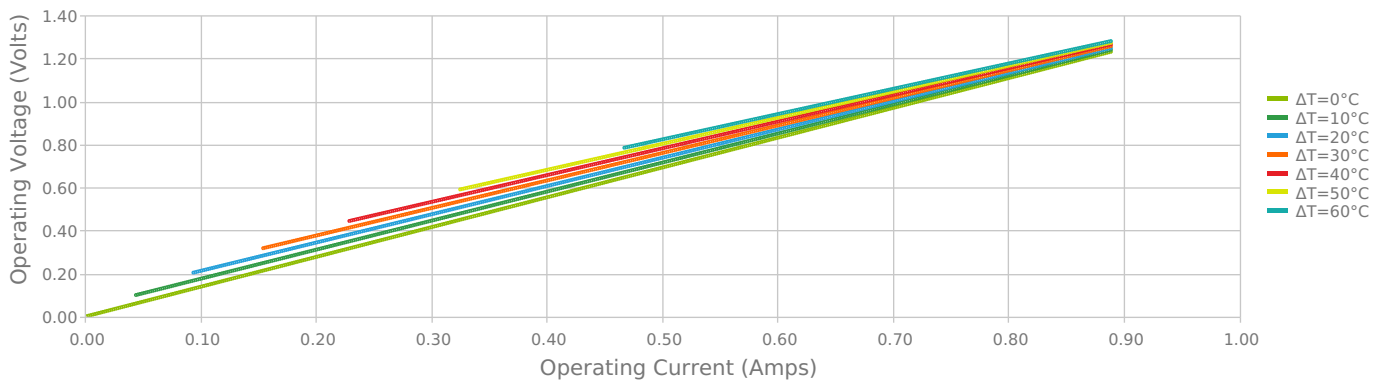
Heat Pumped at Cold Side
Thot = 27 °C



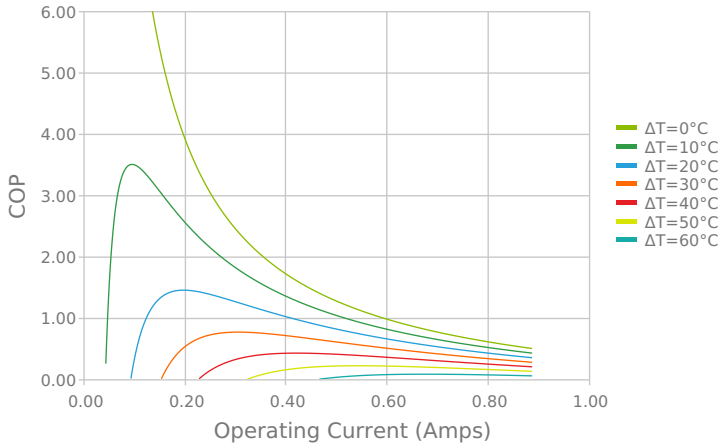
Heat Pumped at Cold Side
Thot = 27 °C



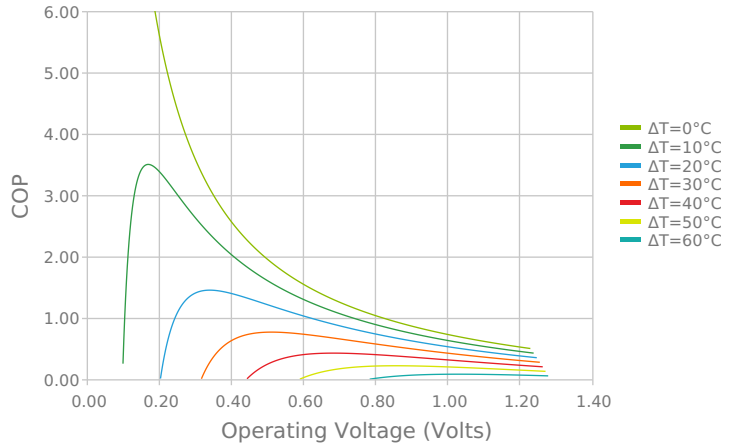
Current vs Voltage (I vs V)
Thot = 27 °C



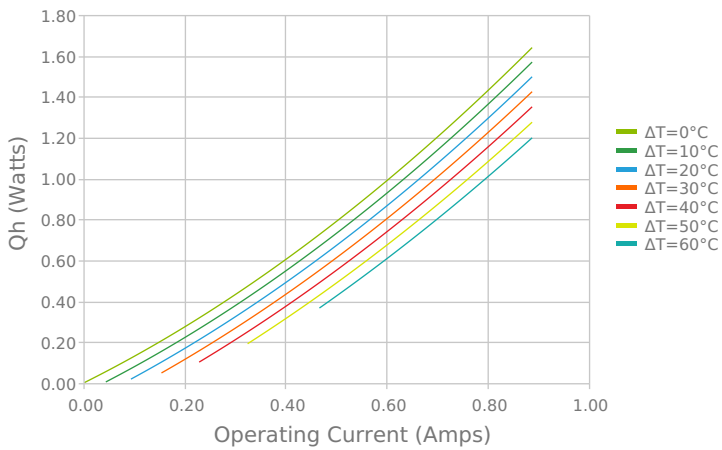
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



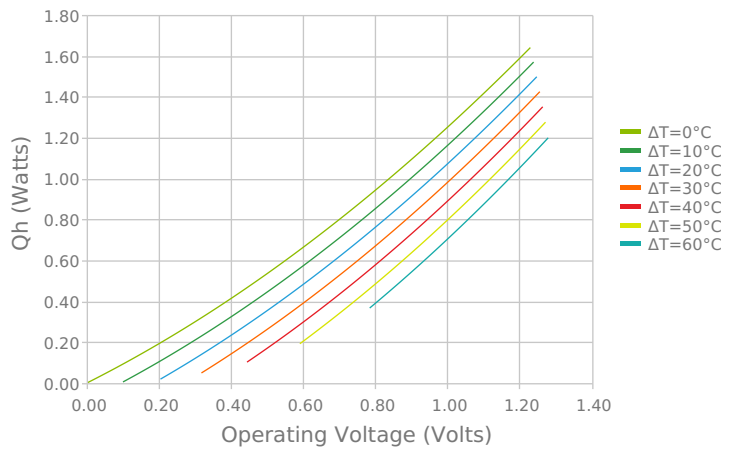
Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C



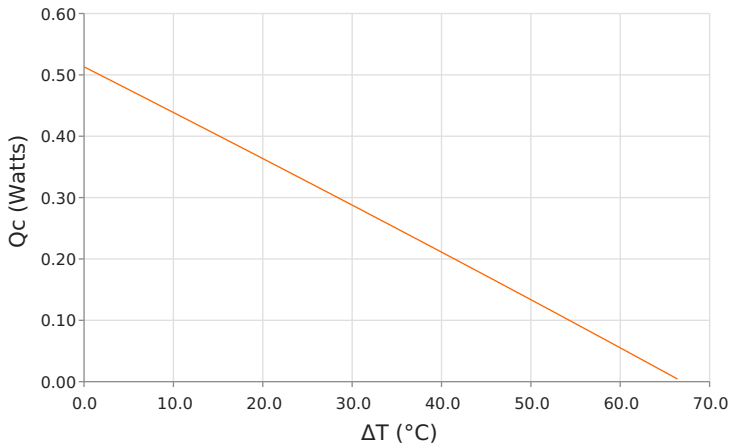
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



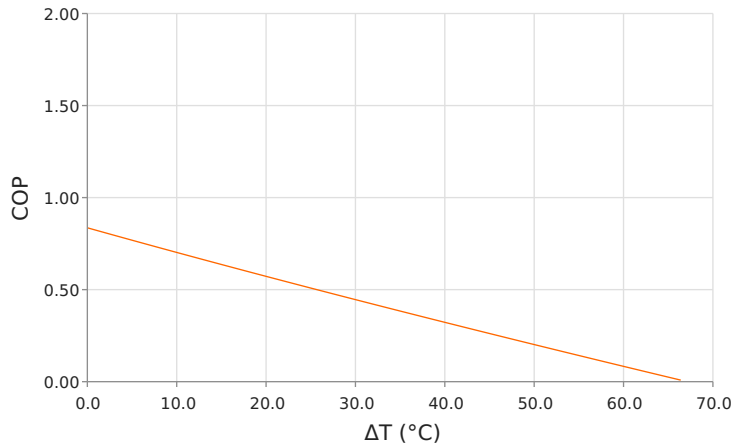
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



Heat Pumped at Cold Side (Qc)
Thot = 27 °C | Current = 0.7 Amps



Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C | Current = 0.7 Amps



SPECIFICATIONS*

	27.0 °C	35.0 °C	50.0 °C
Hot Side Temperature			
Qcmax ($\Delta T = 0$)	0.5 Watts	0.6 Watts	0.6 Watts
ΔT_{max} ($Q_c = 0$)	68.0°C	70.9°C	76.0°C
I_{max} (I @ ΔT_{max})	0.8 Amps	0.8 Amps	0.8 Amps
V_{max} (V @ ΔT_{max})	1.2 Volts	1.2 Volts	1.3 Volts
Module Resistance	1.38 Ohms	1.44 Ohms	1.55 Ohms
Max Operating Temperature	80 °C		
Weight	1.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	2.769 ±0.127 mm 0.109 ± 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: 80°C
2. Do not exceed I_{max} or V_{max} when operating module
3. Reference assembly guidelines for recommended installation
4. Solder tinning also available on metallized ceramics

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