OptoTEC™ OT Series OT15-66-F0-1211-11-W2.25
MFG Part Number: 430013-501
Legacy Product

OptoTEC™ OT Series Thermoelectric Cooler

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

This product series has been replaced with the OptoTEC™ OTX Series.

The recommended replacement is:

MFG Part Number: 387006891

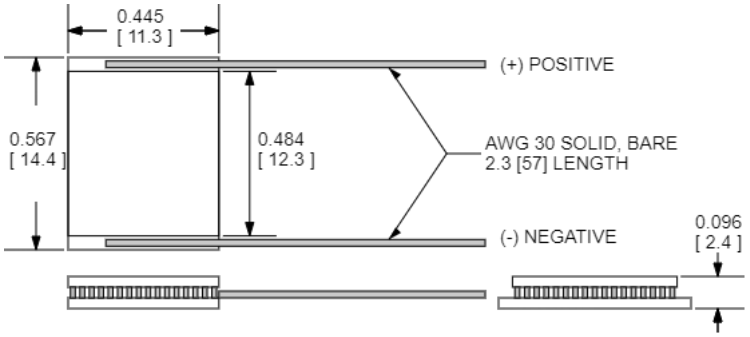
Description: OTX15-66-F0-1211-11-W2.25

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

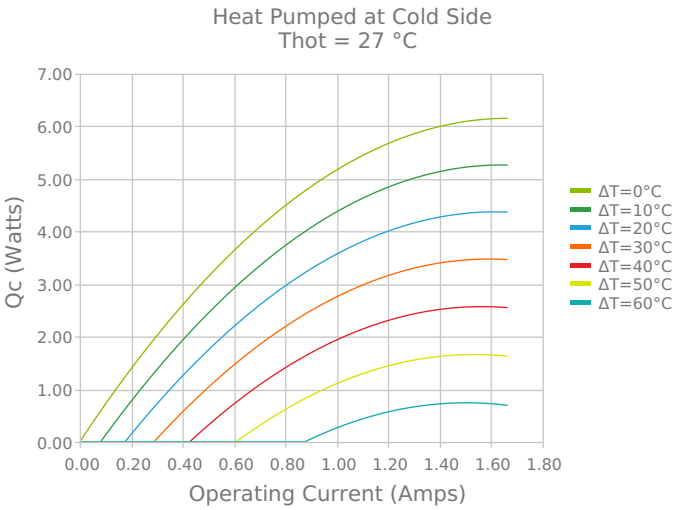


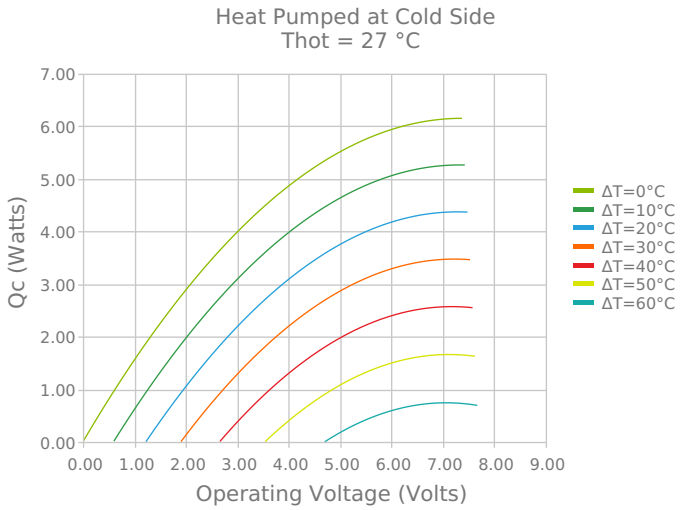
CERAMIC MATERIAL: Al_2O_3

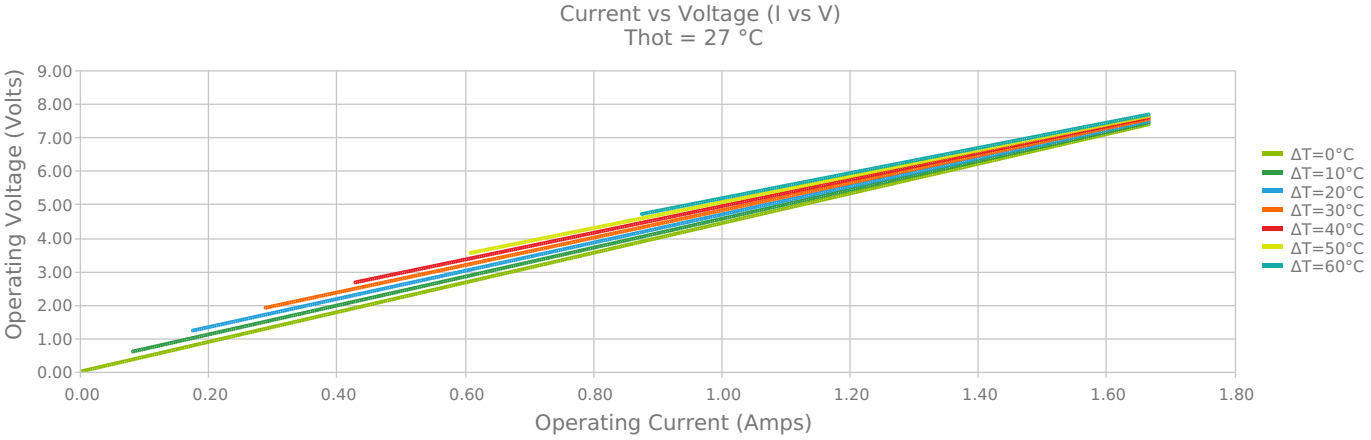
SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

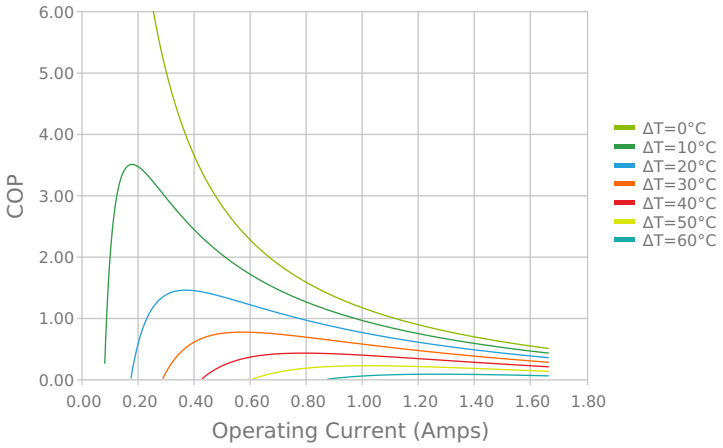
ELECTRICAL AND THERMAL PERFORMANCE







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



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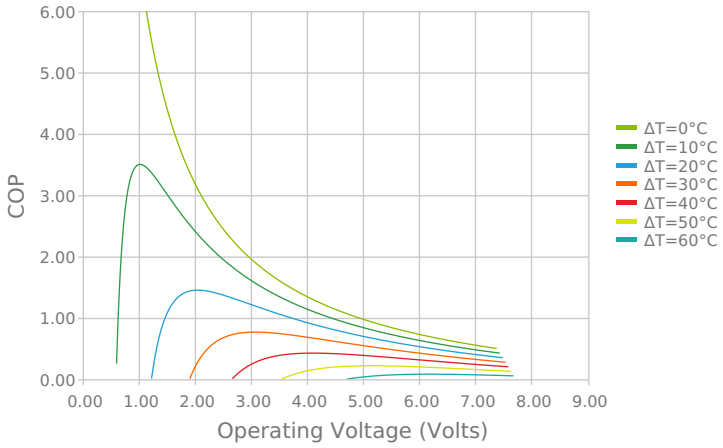
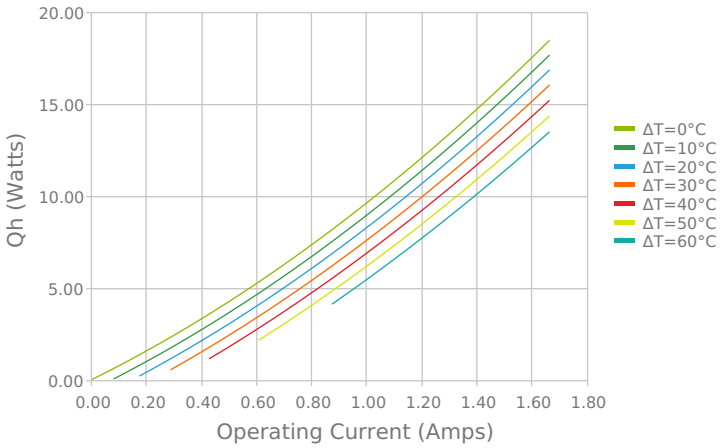


Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Thot = 27 °C



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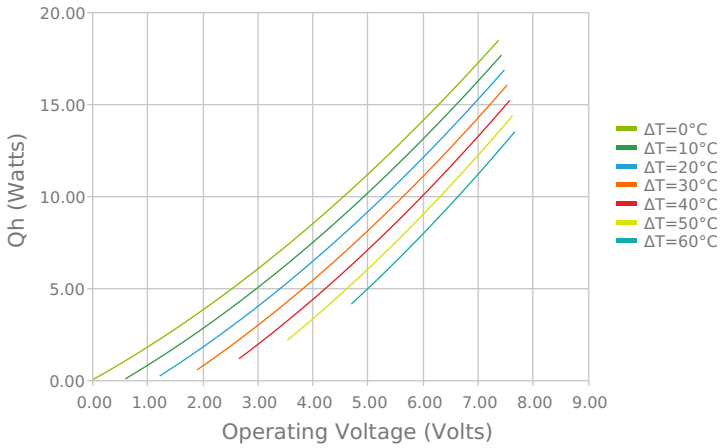
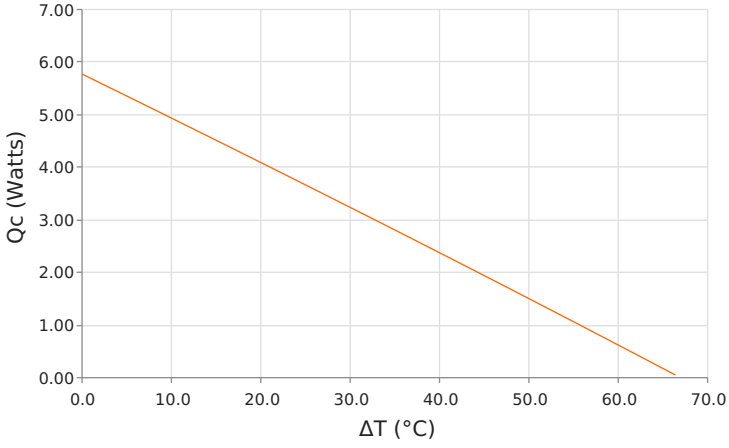
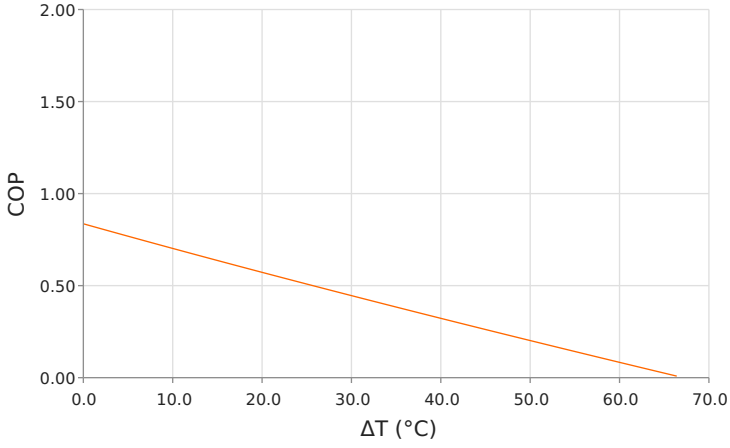


Heat Pumped at Cold Side (Qc)
Thot = 27 °C | Current = 1.2 Amps



Coefficient of Performance (COP = Qc/Pin)
Thot = 27 °C | Current = 1.2 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 0)	6.2 Watts	6.3 Watts	6.7 Watts
ΔTmax (Qc = 0)	68.0°C	70.9°C	76.0°C
Imax (I @ ΔTmax)	1.5 Amps	1.5 Amps	1.5 Amps
Vmax (V @ ΔTmax)	7.0 Volts	7.3 Volts	7.8 Volts
Module Resistance	4.43 Ohms	4.61 Ohms	4.96 Ohms
Max Operating Temperature	80 °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
11	2.438 ±0.127 mm 0.096 ± 0.0050 in	0.051 mm / 0.051 mm 0.002 in / 0.002 in	Lapped	Lapped	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 Imax or Vmax when operating module
3. Reference assembly guidelines for recommended installation
4. Solder tinning also available on metallized ceramics

Date: 01/08/2022