



OptoTEC™ OT Series Thermoelectric Cooler

Note: This product is not recommended for new designs.

This product series has been replaced with the OptoTEC $^{\text{\tiny{TM}}}$ OTX Series. The recommended replacement is:

MFG Part Number: 387006653

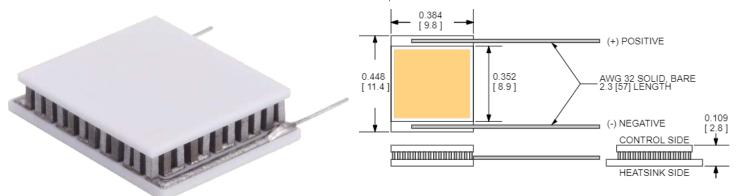
Description: OTX08-66-F0-1009-GG-W2.25

Features

- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

Applications

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

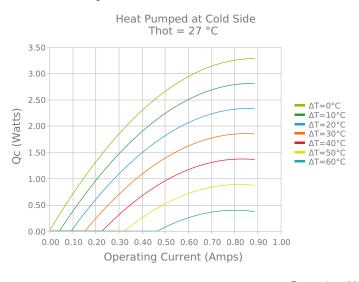


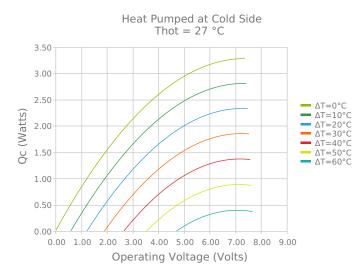
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

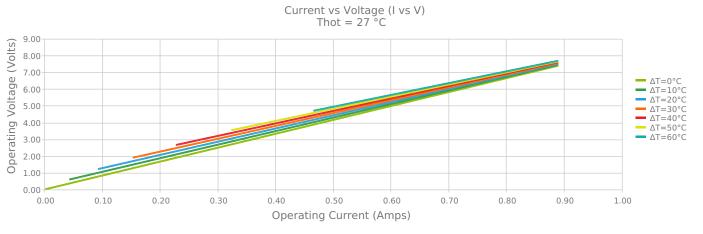
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

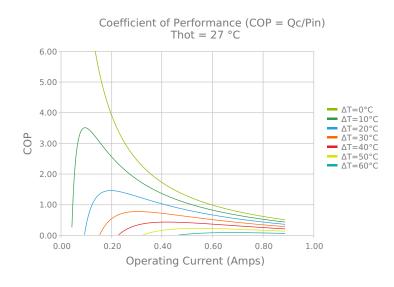
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

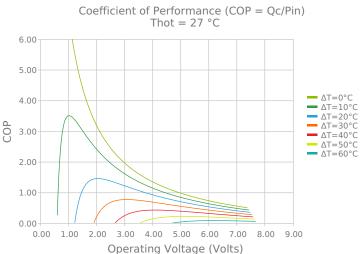


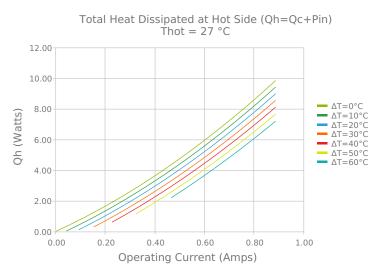


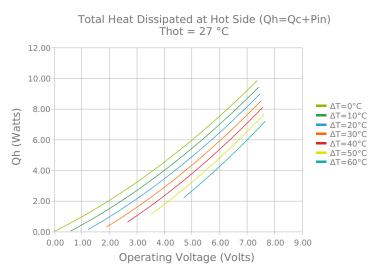


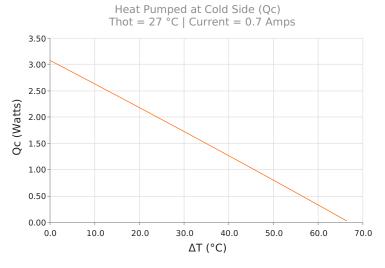


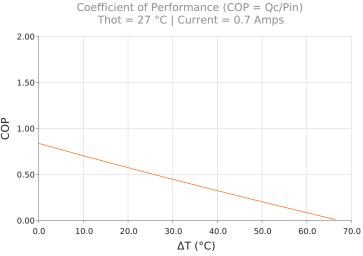














SPECIFICATIONS*

Hot Side Temperature
$Qcmax (\Delta T = 0)$
$\Delta T max (Qc = 0)$
Imax (I @ ΔTmax)
Vmax (V @ ΔTmax)
Module Resistance
Max Operating Temperature
Weight

^{*} Specifications reflect thermoelectric coefficients updated March 2020

27.0 °C	35.0 °C	50.0 °C
3.3 Watts	3.4 Watts	3.6 Watts
68.0°C	70.9°C	76.0°C
0.8 Amps	0.8 Amps	0.8 Amps
7.0 Volts	7.3 Volts	7.8 Volts
8.31 Ohms	8.65 Ohms	9.30 Ohms
80 °C		
1.0 gram(s)		

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 Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation
- 4. Solder tinning also available on metallized ceramics

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Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022