

#### OptoTEC™ OT Series Thermoelectric Cooler

Note: This product has reached end of production. Please use the recommended replacement.

This product series has been replaced with the OptoTEC™ OTX Series. The recommended replacement is:

MFG Part Number: 387006790

Description: OTX08-11-F1-0305-11-W2.25

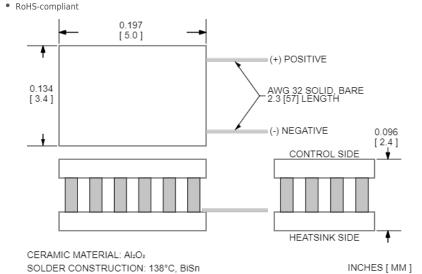


#### **Features**

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

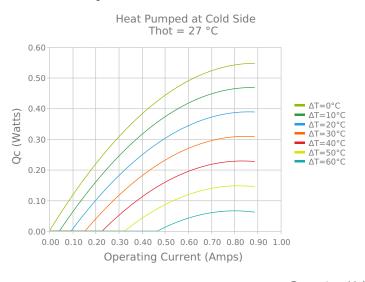
#### **Applications**

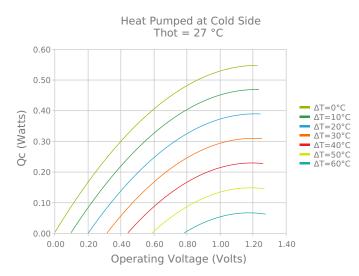
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Heads-Up Displays, Imaging Sensors

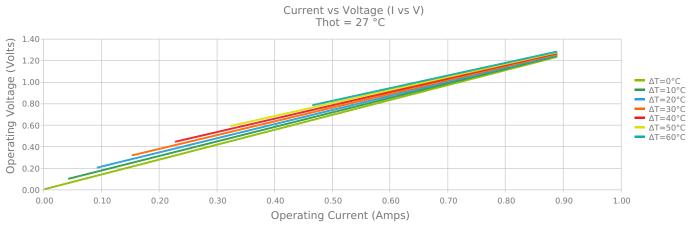


## **ELECTRICAL AND THERMAL PERFORMANCE**

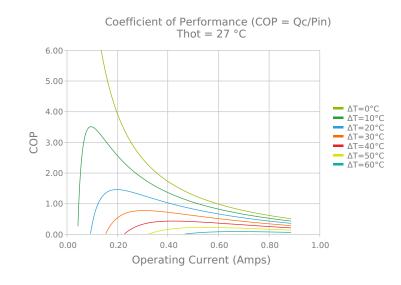
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

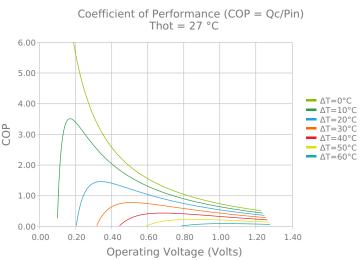


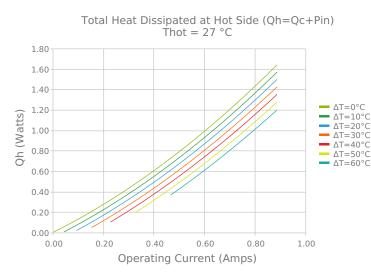


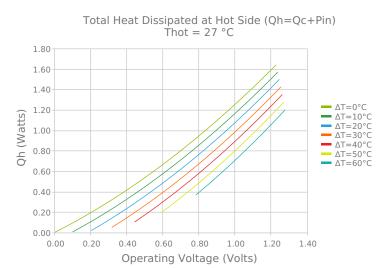


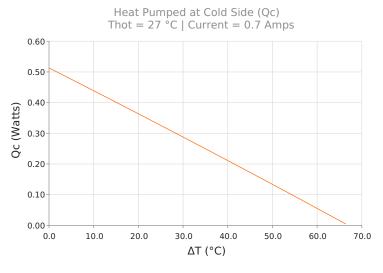


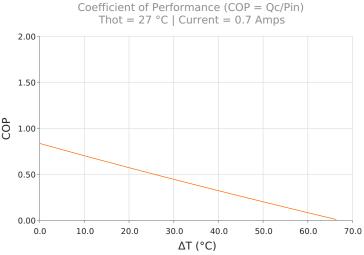
















## **SPECIFICATIONS\***

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

<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020

27.0 °C	35.0 °C	50.0 °C
0.5 Watts	0.6 Watts	0.6 Watts
68.0°C	70.9°C	76.0°C
0.8 Amps	0.8 Amps	0.8 Amps
1.2 Volts	1.2 Volts	1.3 Volts
1.38 Ohms	1.44 Ohms	1.55 Ohms
80 °C		
1.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>
ТВ	2.438 ±0.013 mm 0.096 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 in	Lapped	Lapped	50.8 mm 2.00 in

## **SEALING OPTIONS**

Suffix	Sealant	Color	<b>Temp Range</b>	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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