

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:

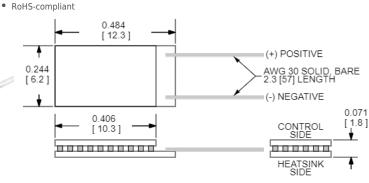
MFG Part Number: 387006911

Description: OTX20-30-F2A-0610-11-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



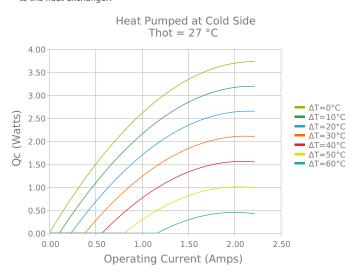


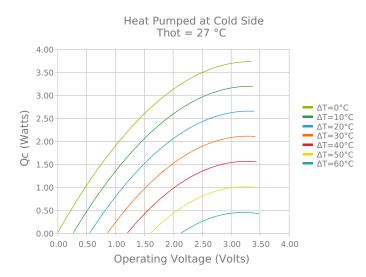
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BiSn

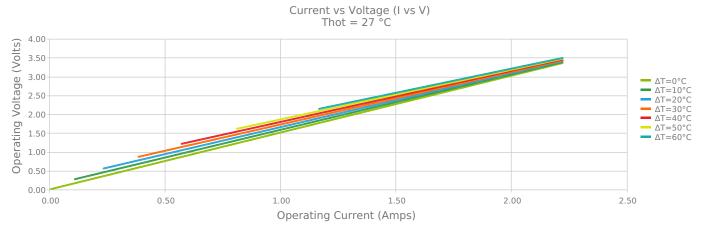
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

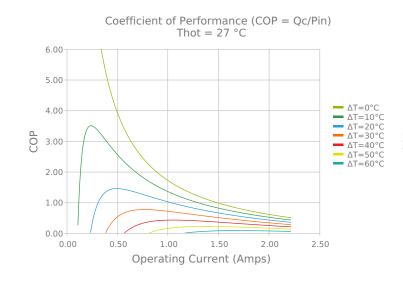
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

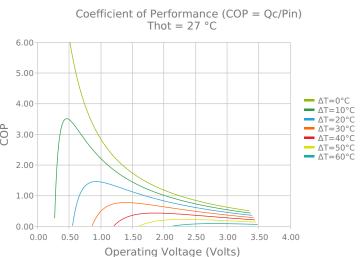


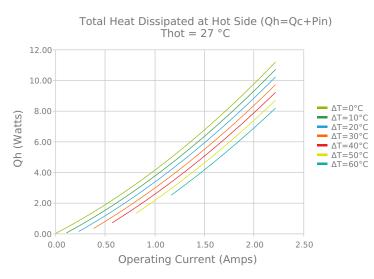


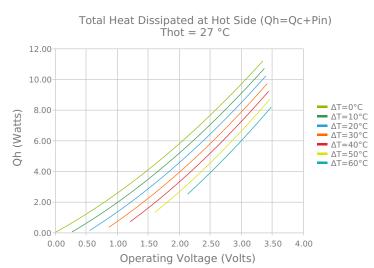


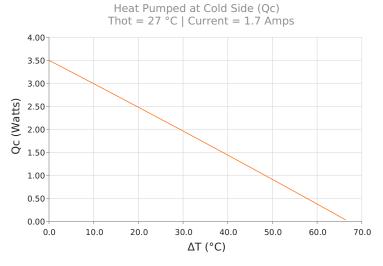


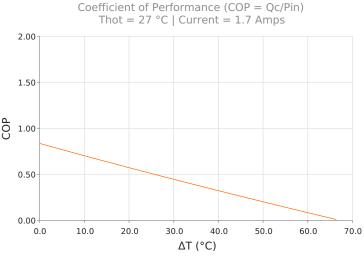














SPECIFICATIONS*

Hot Sid	ете	mper	ature
Qcmax	(ΔΤ	= 0)	

 $\Delta T max (Qc = 0)$

Imax (I @ ATmax)

Vmax (V @ \Darmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
3.7 Watts	3.8 Watts	4.0 Watts
68.0°C	70.9°C	76.0°C
2.0 Amps	2.0 Amps	1.9 Amps
3.2 Volts	3.3 Volts	3.5 Volts
1.51 Ohms	1.57 Ohms	1.69 Ohms
80 °C		
1.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
11	1.800 ±0.127 mm 0.071 ± 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

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Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022

^{*} Specifications reflect thermoelectric coefficients updated March 2020