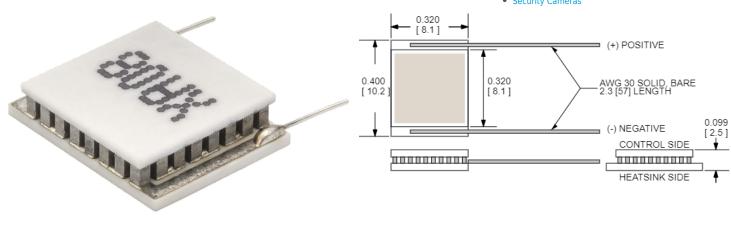
OptoTEC[™] OTX Series OTX20-32-F0-0808-22-W2.25 MFG Part Number: 387006924

OptoTEC[™] OTX Series Thermoelectric Cooler

The OTX20-32-F0-0808-22-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX20-32-F0-0808-22-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 4.5 Watts when $\Delta T = 0$ and a maximum ΔT of 72.9 °C at Qc = 0.

- Features
- Miniature footprint
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- RoHS-compliant
- Applications
- Laser Diodes
- Optical Transceivers
- Lidar Sensors
- Infrared Range (IR) Sensors
- CMOS Sensors
- Autonomous SystemsMachine Vision
- Machine Vision
 Security Cameras

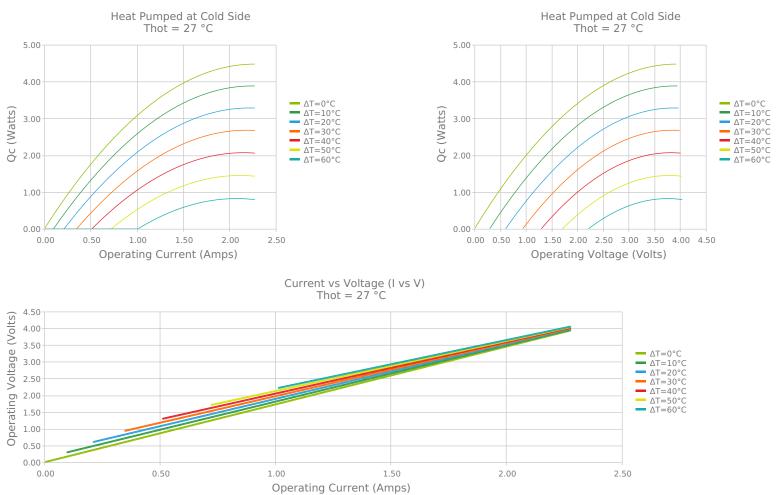


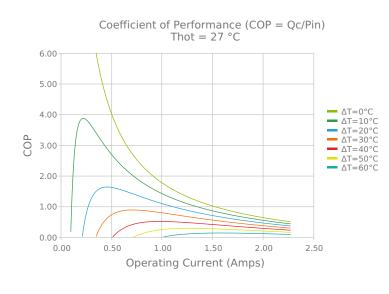
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C, SbSn

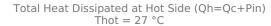
INCHES [MM]

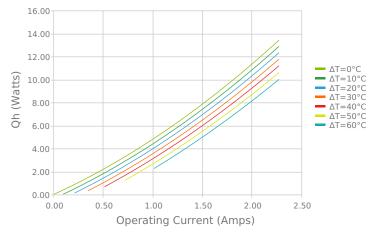
ELECTRICAL AND THERMAL PERFORMANCE

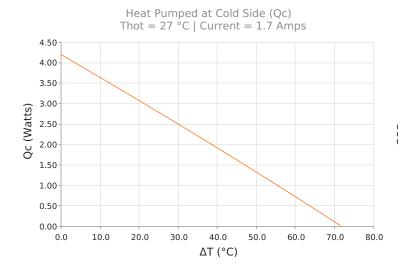
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

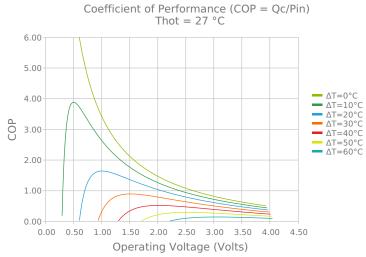




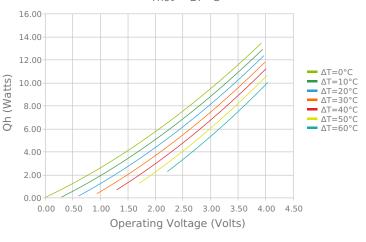




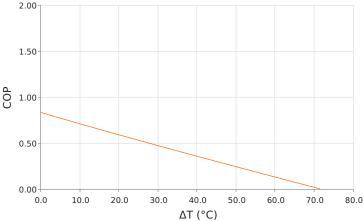




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 27 $^{\circ}C$



Coefficient of Performance (COP = Qc/Pin) Thot = 27 °C | Current = 1.7 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	50.0 °C	80.0 °C
$Qcmax (\Delta T = 0)$	4.5 Watts	4.8 Watts	5.2 Watts
ΔTmax (Qc = 0)	72.9°C	81.8°C	92.1°C
lmax (I @ ΔTmax)	2.0 Amps	2.0 Amps	1.9 Amps
Vmax (V @ ΔTmax)	3.7 Volts	4.1 Volts	4.7 Volts
Module Resistance	1.73 Ohms	1.94 Ohms	2.22 Ohms
Max Operating Temperature	120 °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
22	2.514 ±0.127 mm 0.099 ± 0.0050 in	N/A / N/A	Pre-tinned	Pre-tinned	50.8 mm 2.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

- 1. Max operating temperature: 120°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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