

OptoTEC™ OTX Series Thermoelectric Cooler

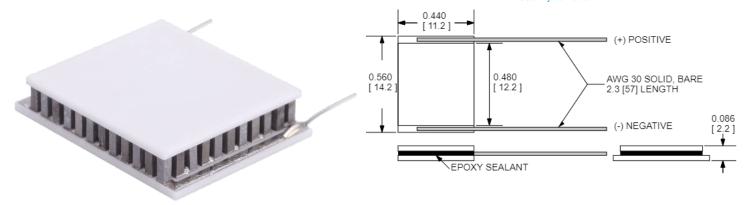
The OTX20-66-F0-1211-11-EP-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX20-66-F0-1211-11-EP-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 9.2 Watts when $\Delta T=0$ 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 SensorsInfrared Range (IR) Sensors
- CMOS Sensors
- Autonomous SystemsMachine Vision
- Security Cameras

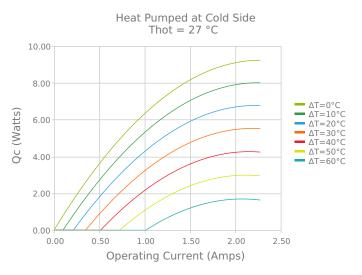


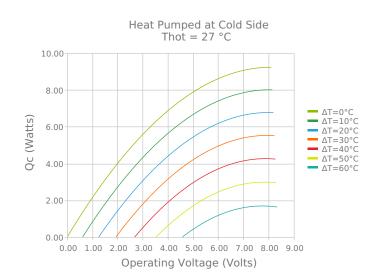
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 232°C, SbSn

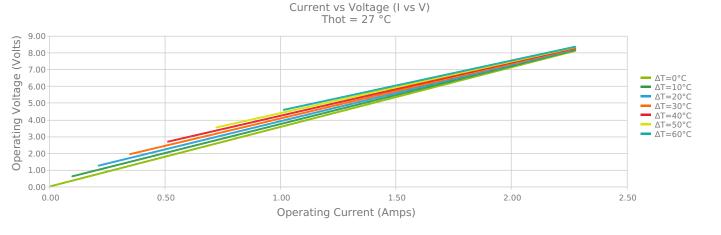
INCHES [MM]

Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

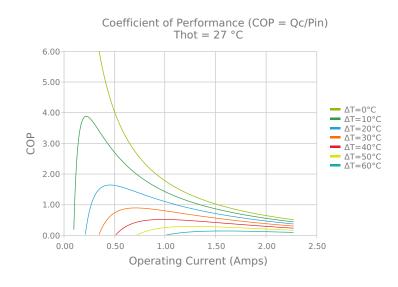
ELECTRICAL AND THERMAL PERFORMANCE

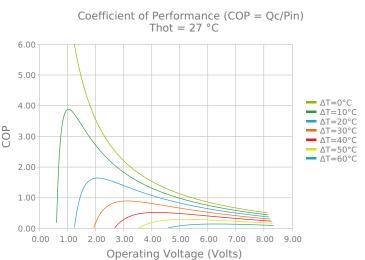


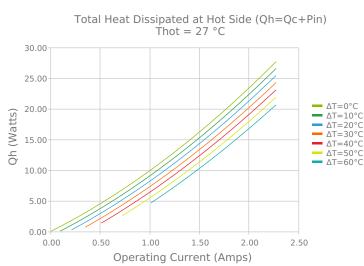


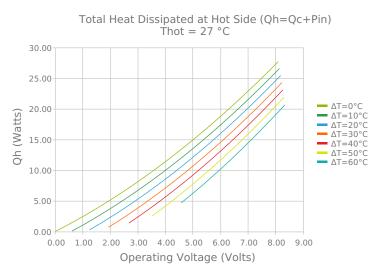


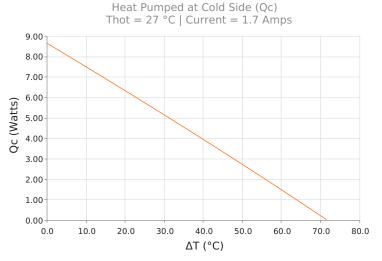


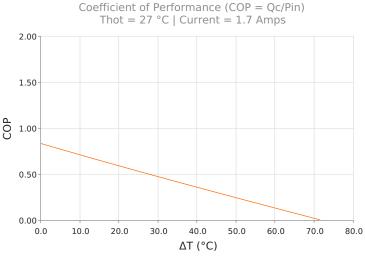














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ ATmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	50.0 °C	80.0 °C
9.2 Watts	9.9 Watts	10.7 Watts
72.9°C	81.8°C	92.1°C
2.0 Amps	2.0 Amps	1.9 Amps
7.7 Volts	8.5 Volts	9.6 Volts
3.56 Ohms	4.01 Ohms	4.58 Ohms
120 °C		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	2.184 ±0.127 mm 0.086 ± 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
EP	Epoxy	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant

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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Date: 12/15/2021

^{*} Specifications reflect thermoelectric coefficients updated March 2020

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