

OptoTEC™ OTX Series Thermoelectric Cooler

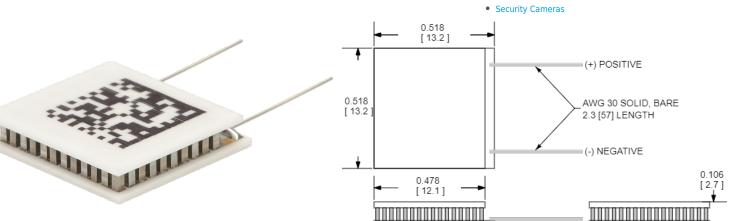
The OTX12-65-F2A-1312-11-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX12-65-F2A-1312-11-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 5.5 Watts when $\Delta T=0$ 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

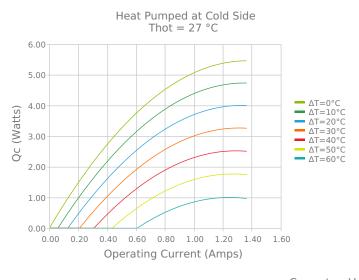
- Laser Diodes
- Optical Transceivers
- Lidar Sensors
 Infrared Bane
- Infrared Range (IR) SensorsCMOS Sensors
- Autonomous Systems
- Machine Vision

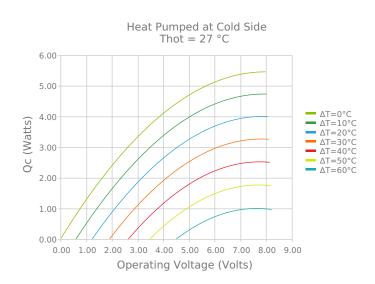


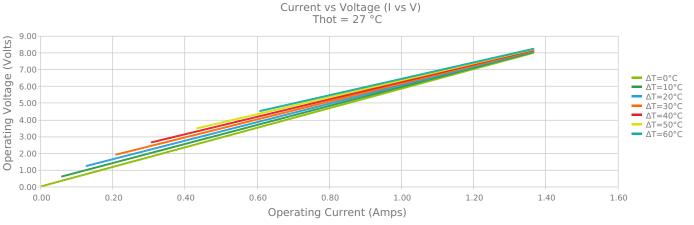
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

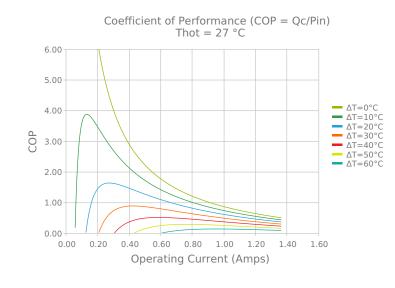
ELECTRICAL AND THERMAL PERFORMANCE

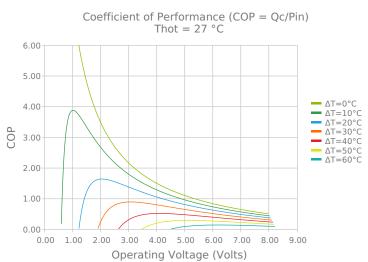


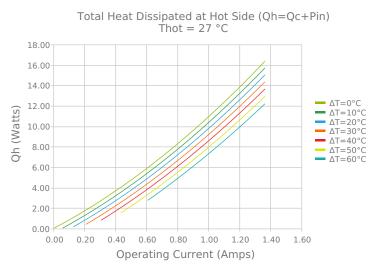


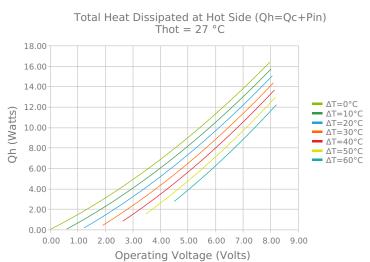


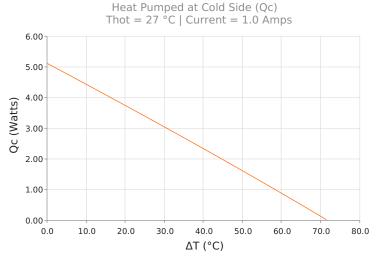


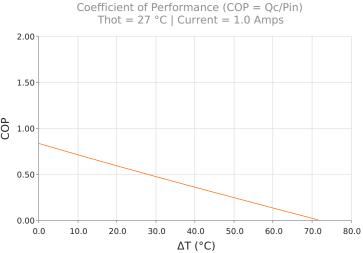














SPECIFICATIONS*

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
5.5 Watts	5.9 Watts	6.3 Watts
72.9°C	81.8°C	92.1°C
1.2 Amps	1.2 Amps	1.2 Amps
7.6 Volts	8.4 Volts	9.5 Volts
5.84 Ohms	6.58 Ohms	7.52 Ohms
120 °C		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	2.692 ±0.127 mm 0.106 ± 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: 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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