OptoTEC™ HTX Series HTX20-65-F2A-1312-11-W2.25 MFG Part Number: 387007122

OptoTEC[™] HTX Series Thermoelectric Cooler

The HTX20-65-F2A-1312-11-W2.25 is a high-performance, hightemperature, miniature thermoelectric cooler. The HTX20-65-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 9.7 Watts when $\Delta T = 0$ and a maximum ΔT of 81.6 $^{\circ}C$ at Qc = 0.





- Precise temperature control
- Reliable solid-state operation
- Operates in high-temperature • applications No sound or vibration
- CMOS Sensors Autonomous Systems
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Machine Vision

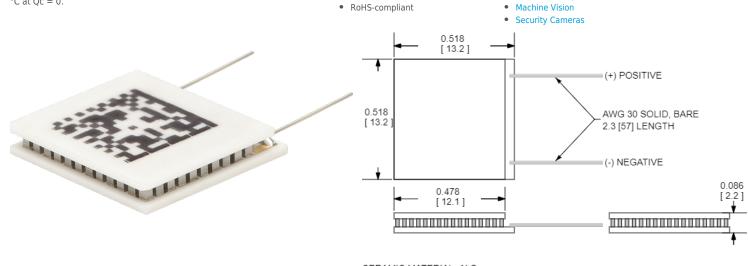
Infrared Range (IR) Sensors

Optical Transceivers

Applications

Laser Diodes

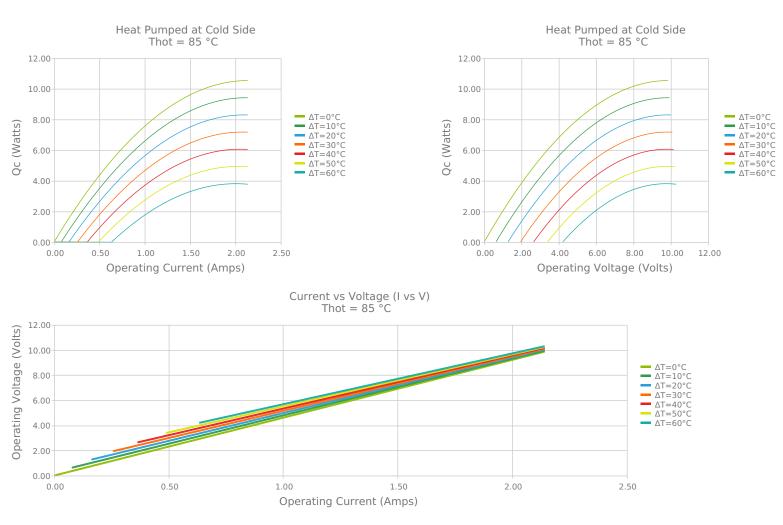
Lidar Sensors

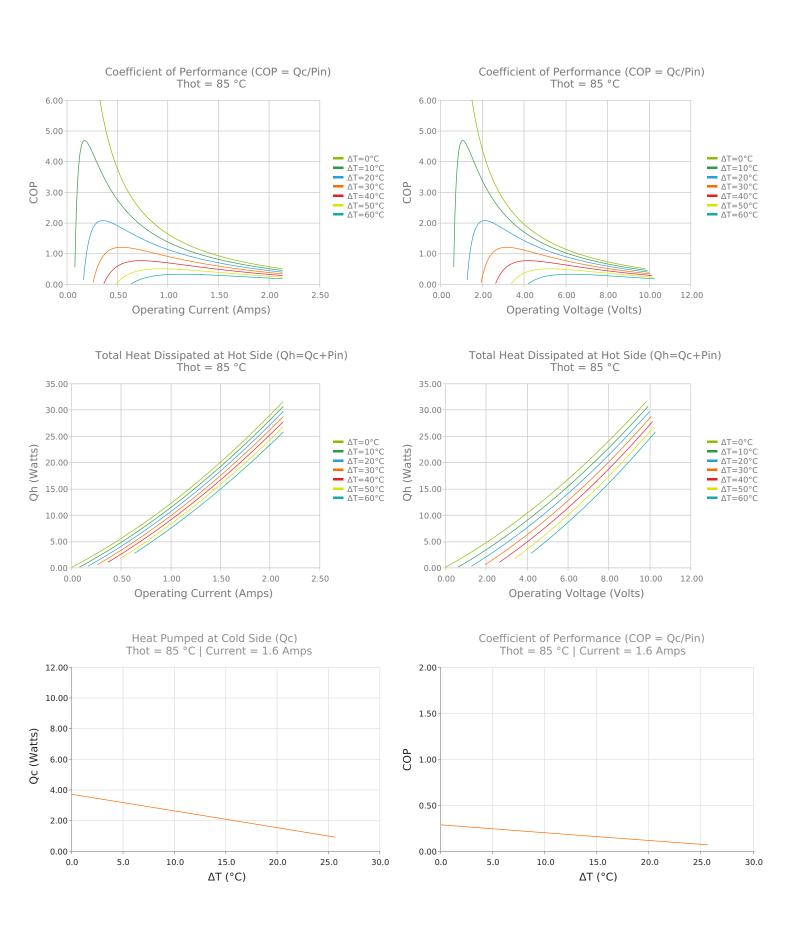


CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 280°C, AuSn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE





SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	9.7 Watts	10.5 Watts	10.9 Watts
ΔTmax (Qc = 0)	81.6°C	93.4°C	99.9°C
lmax (I @ ΔTmax)	2.0 Amps	1.9 Amps	1.9 Amps
Vmax (V @ ΔTmax)	8.4 Volts	9.6 Volts	10.5 Volts
Module Resistance	3.95 Ohms	4.61 Ohms	5.04 Ohms
Max Operating Temperature	150 °C		
Weight	2.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

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
	None			No sealing specified

NOTES

- 1. Max operating temperature: 150°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

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