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 Oc = 0.





- Precise temperature control
- Reliable solid-state operation
- Operates in high-temperature
- applications
- No sound or vibration RoHS-compliant
- Infrared Range (IR) Sensors CMOS Sensors

Optical Transceivers

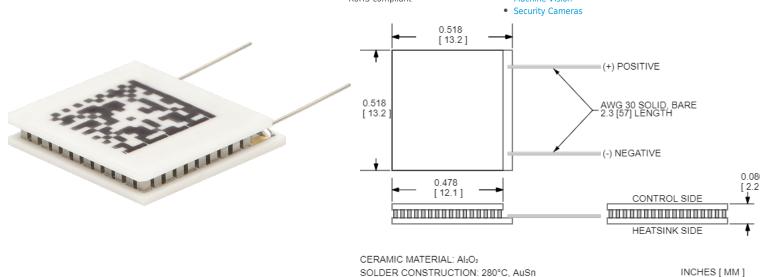
Autonomous Systems

Applications

Laser Diodes

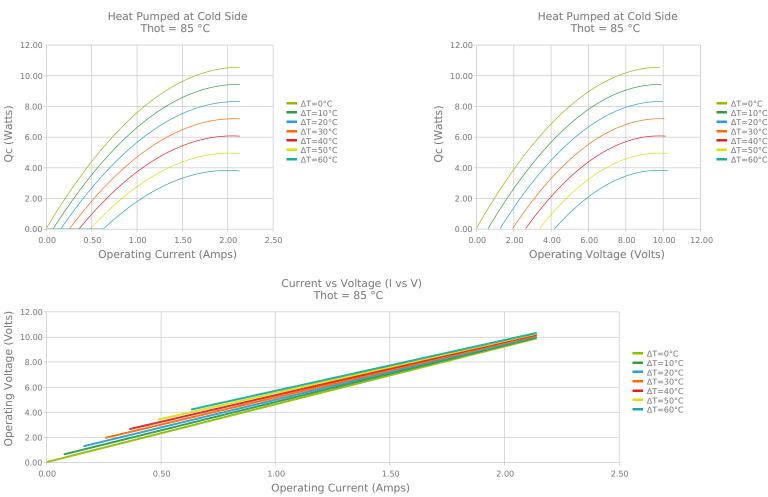
Lidar Sensors

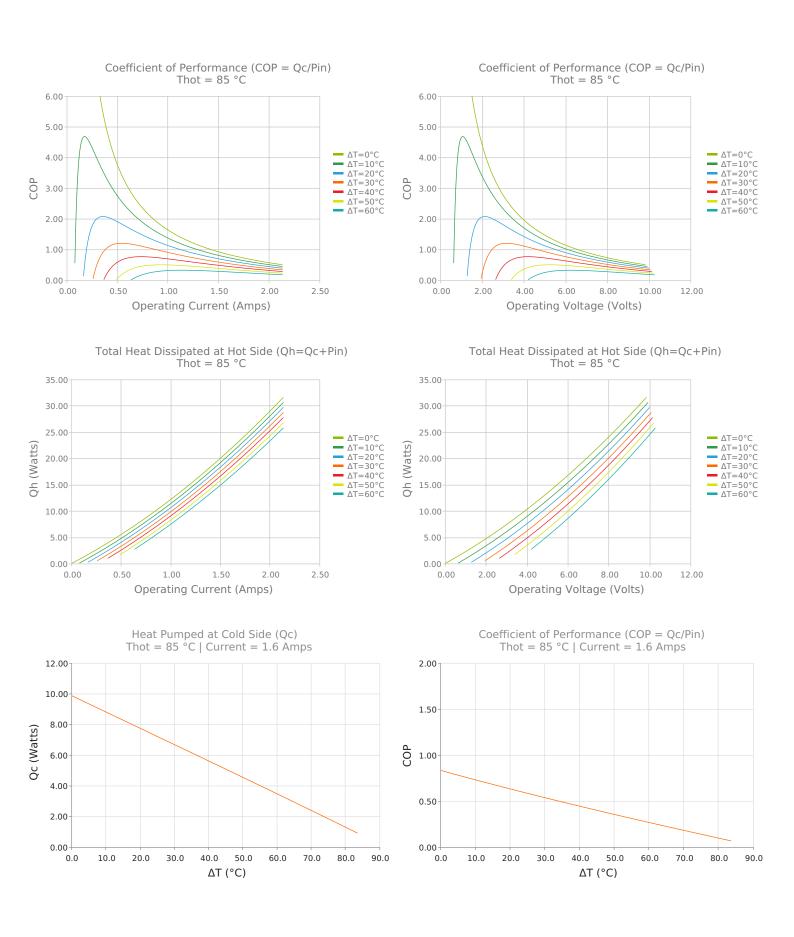
- Machine Vision



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 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

Any information furnished by Laird and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Laird. All specifications are subject to change without notice. Laird assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Laird products are sold subject to the Laird Terms and Conditions of sale (including Laird's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019-2022 Laird Thermal Systems, Inc. All rights reserved. Laird[™], the Laird Ring Logo, and Laird Thermal Systems[™] are trademarks or registered trademarks of Laird Limited or its subsidiaries.

OptoTEC[™] is a trademark of Laird Thermal Systems, Inc. All other marks are owned by their respective owners.

Revision: 00 Date: 06-01-2022

Print Date: 06-14-2022

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Laird Thermal Systems: 387007122