

OptoTEC™ HTX Series Thermoelectric Cooler

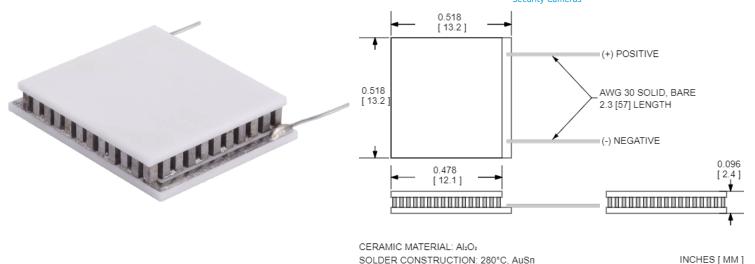
The HTX15-65-F2A-1312-11-W2.25 is a high-performance, high-temperature, miniature thermoelectric cooler. The HTX15-65-F2A-1312-11-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 7.3 Watts when $\Delta T=0$ and a maximum ΔT of 81.6 °C at Qc = 0.

Features

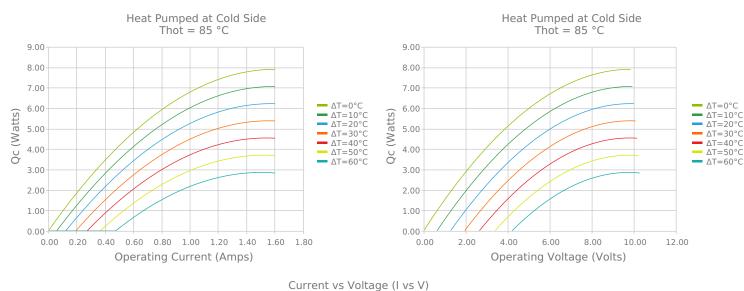
- Miniature footprint
- Precise temperature control
- Reliable solid-state operationOperates in high-temperature
- applicationsNo sound or vibration
- RoHS-compliant

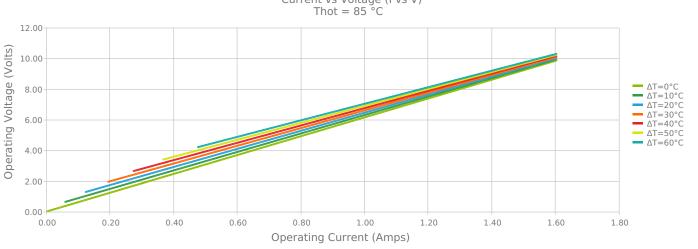
Applications

- Laser Diodes
- Optical Transceivers
- Lidar SensorsInfrared Range (IR) Sensors
- CMOS Sensors
- Autonomous Systems
- Machine VisionSecurity Cameras

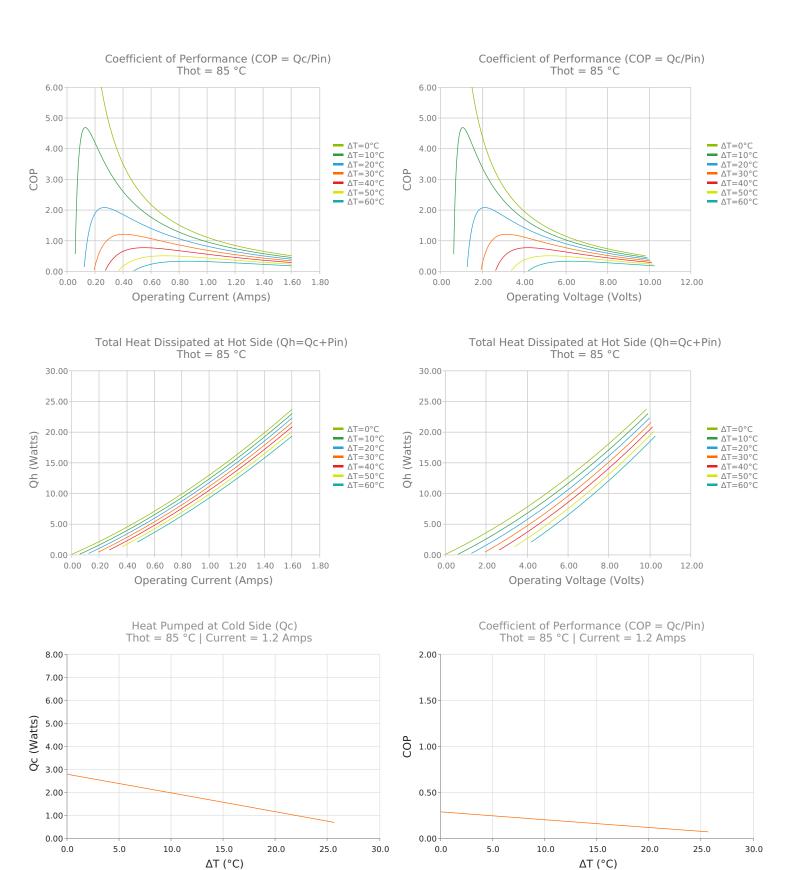


ELECTRICAL AND THERMAL PERFORMANCE











SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Delta Tmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C
7.3 Watts	7.9 Watts	8.1 Watts
81.6°C	93.4°C	99.9°C
1.5 Amps	1.4 Amps	1.4 Amps
8.4 Volts	9.6 Volts	10.5 Volts
5.26 Ohms	6.14 Ohms	6.72 Ohms
150 °C		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
11	2.438 ±0.127 mm 0.096 ± 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 2019-2021 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.

Date: 07/01/2021

^{*} Specifications reflect thermoelectric coefficients updated March 2020

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thermoelectric Peltier Modules category:

Click to view products by Laird Thermal Systems manufacturer:

Other Similar products are found below:

C3100-1980 C3200-0504 C3200-0505 C3200-371 C3400-0262 430084-505 C3400-215 DAC046-24-02-00-00 430866-501 CP39136H

CP35447 CP85204035 CP60131H CPM-2F CP853345H CP85138 CP35347 430077-523 CP081030-M CP12437 CP30138H CP30338

CP303385H CP35247 CP39236H CP393365H CP40236 CP40247 CP40347 CP50441 CP60231H CP60233 CP60239H CP60240

CP60301540 CP60333 CP603395H CP60340 CP604395H CP60440 CP70437 CP854345H CP854705-2 CP10205033 CP10304033

CP1054033H CP115035335 CP144745325 CP200543636 CP2020405H