

HiTemp ET Series Thermoelectric Cooler Note: This product is not recommended for new designs.

Description: OTX12-18-F2A-0606-11-W2.25

The recommended replacement is:

MFG Part Number: 387006824

This product series has been replaced with the HiTemp ETX Series.

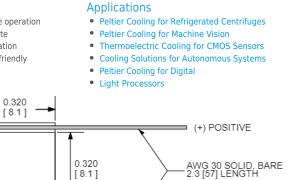
Features

- High-temperature operation
- Reliable solid-state
- No sound or vibration
- Environmentally-friendly

0.400

[10.2

RoHS-compliant



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

INCHES [MM]

0.087

[2.2]

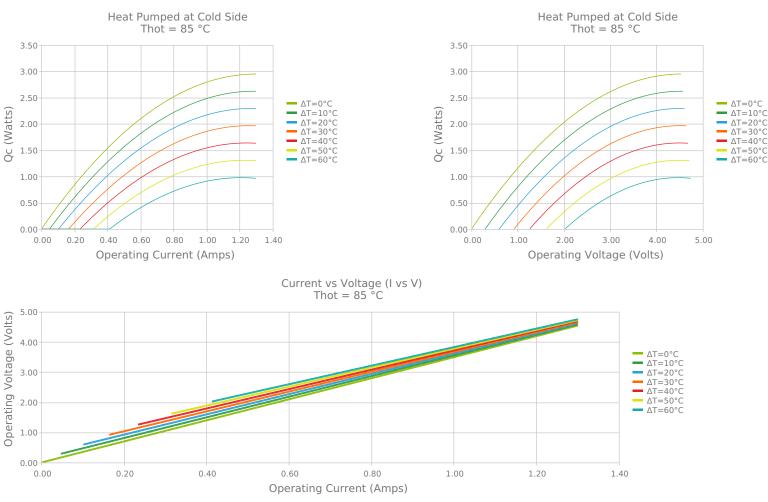
(-) NEGATIVE

CONTROL SIDE

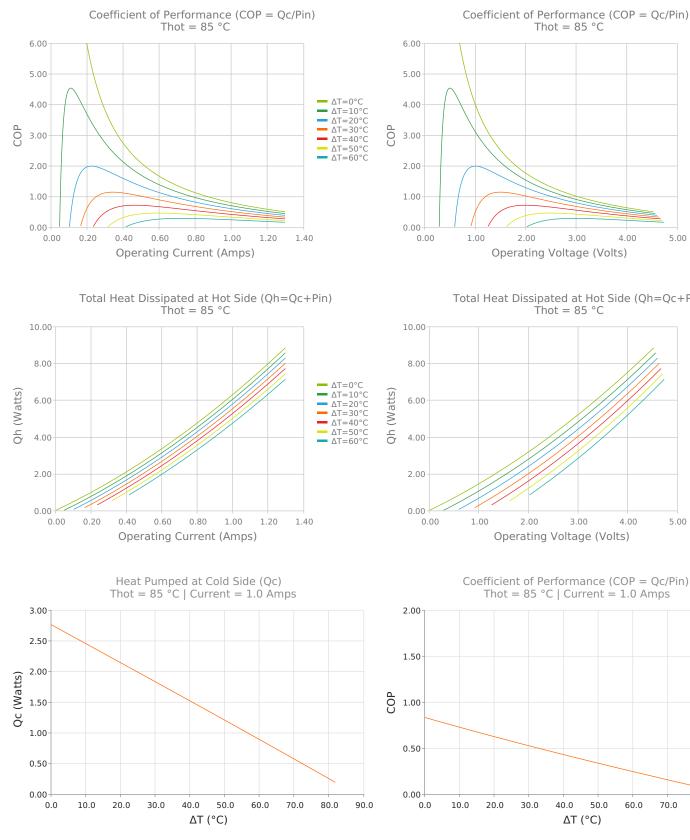
HEATSINK SIDE

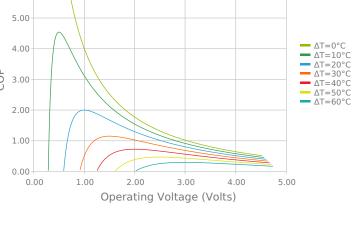
ELECTRICAL AND THERMAL PERFORMANCE

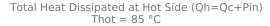
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.

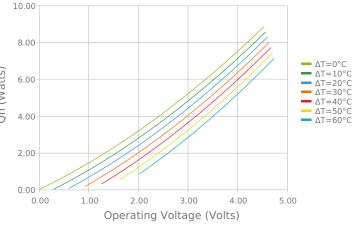




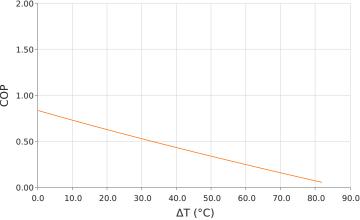








Coefficient of Performance (COP = Qc/Pin) Thot = 85 °C | Current = 1.0 Amps



SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	2.7 Watts	2.9 Watts	3.1 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
lmax (I @ ΔTmax)	1.2 Amps	1.2 Amps	1.1 Amps
Vmax (V @ ΔTmax)	3.8 Volts	4.4 Volts	4.8 Volts
Module Resistance	3.01 Ohms	3.49 Ohms	3.82 Ohms
Max Operating Temperature	150 °C		
Weight	1.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	2.200 ±0.051 mm 0.087 ± 0.0020 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

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.

Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022