

HiTemp ETX Series Thermoelectric Cooler

The ETX14-3-F1-3030-TB-EP-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 33.8 Watts when $\Delta T=0$ and a maximum ΔT of 83.2 °C

Features

- High-temperature operation
- Reliable solid-state
- No sound or vibrationEnvironmentally-friendly
- RoHS-compliant

Applications

- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital Light Processors
- Heating and Cooling for Liquid Chromatography Systems
- Thermoelectric Cooling for Security Cameras

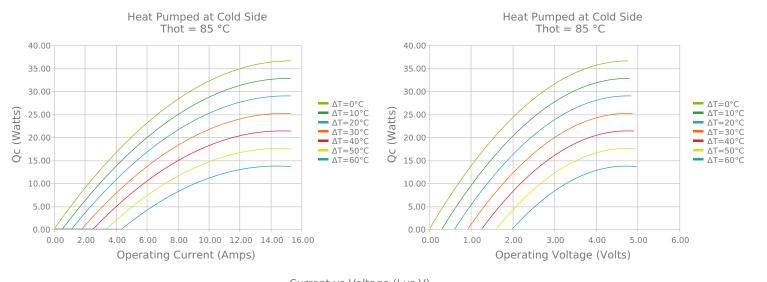


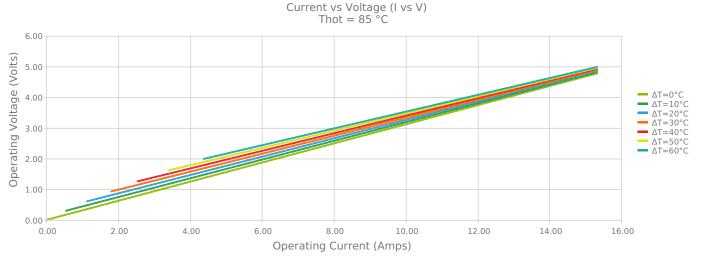
CERAMIC MATERIAL: Al₂O₃
SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

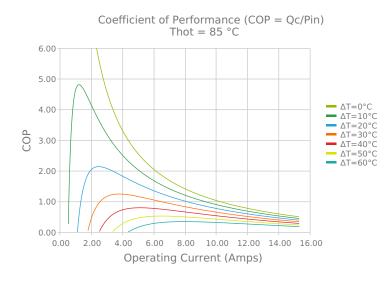
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

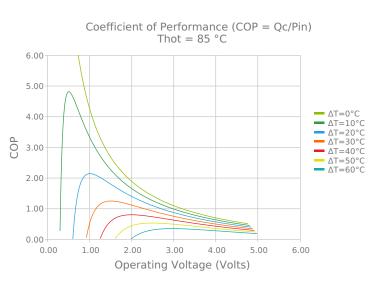
ELECTRICAL AND THERMAL PERFORMANCE

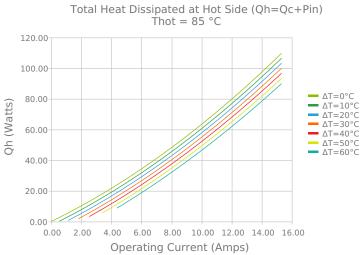


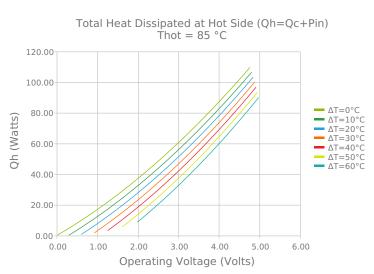


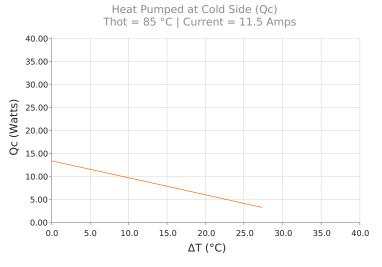


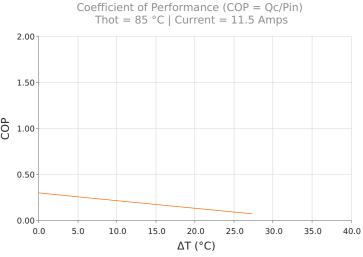














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C	
33.8 Watts	36.6 Watts	37.7 Watts	
83.2°C	95.3°C	102.0°C	
14.1 Amps	13.6 Amps	13.3 Amps	
4.1 Volts	4.7 Volts	5.1 Volts	
0.27 Ohms	0.31 Ohms	0.34 Ohms	
150 °C			
19.0 gram(s)			

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	4.572 ±0.013 mm 0.180 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
EP	Epoxy	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant

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 2019-2021 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.

Date: 12/14/2021

^{*} 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 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 CP603495H CP60440 CP70437 CP854345H CP854705-2 CP10205033 CP10304033 CP1054033H CP115035335 CP144745325 CP200543636 CP2020405H CP203475H