

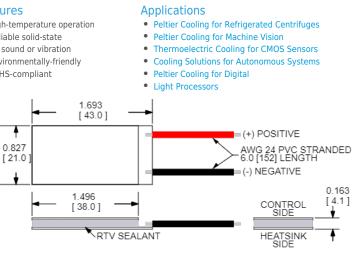
HiTemp ET Series Thermoelectric Cooler

Note: This product is not recommended for new designs. This product series has been replaced with the HiTemp ETX Series. The recommended replacement is: Description: ETX4-6-F2-2138-TA-RT-W6

Features



- Reliable solid-state
- No sound or vibration
- · Environmentally-friendly
- RoHS-compliant



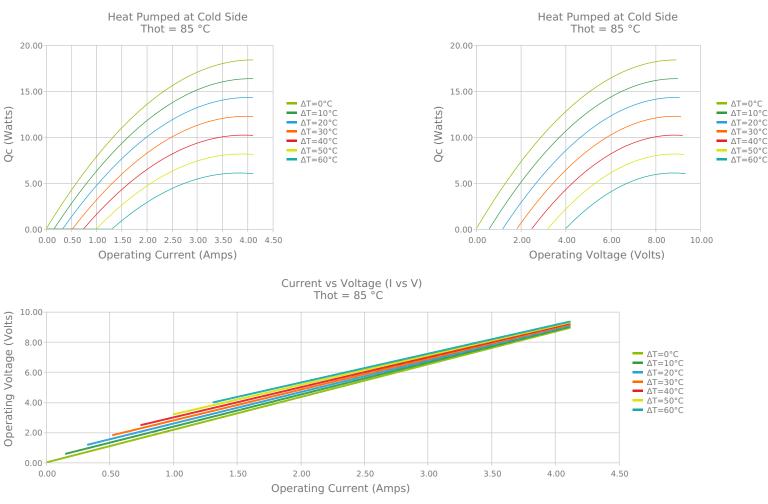
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

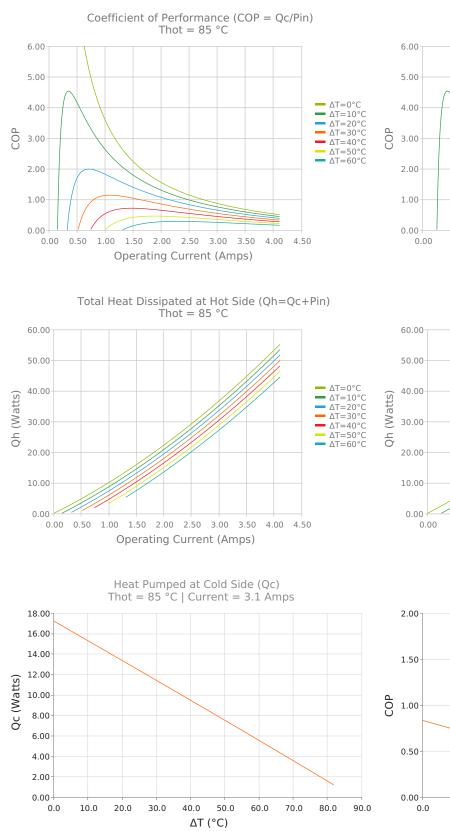
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

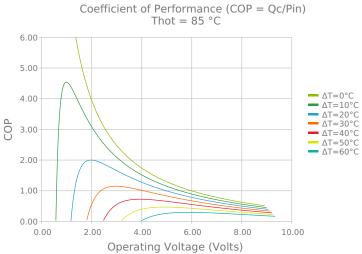
ELECTRICAL AND THERMAL PERFORMANCE

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.

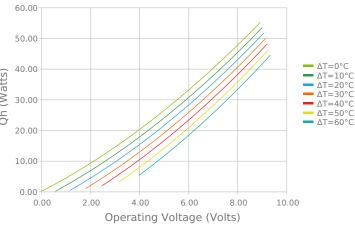




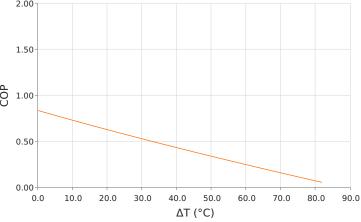




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 85 $^{\circ}$ C



Coefficient of Performance (COP = Qc/Pin) Thot = 85 $^{\circ}$ C | Current = 3.1 Amps



SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	16.8 Watts	18.4 Watts	19.2 Watts
$\Delta Tmax (Qc = 0)$	77.9°C	89.3°C	96.2°C
lmax (I @ ΔTmax)	3.7 Amps	3.7 Amps	3.6 Amps
Vmax (V @ ΔTmax)	7.6 Volts	8.7 Volts	9.5 Volts
Module Resistance	1.87 Ohms	2.17 Ohms	2.38 Ohms
Max Operating Temperature	150 °C		
Weight	12.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	4.140 ±0.051 mm 0.163 ± 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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

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