

HiTemp ET Series Thermoelectric Cooler

Note: This product has reached end of production. Please use the recommended replacement.

The recommended replacement is: MFG Part Number: 387009454

Description: OTX19-23-F1N-0608-GG-W2.25

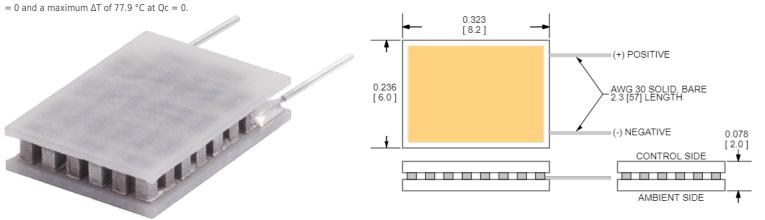
The ET19-23-F1N-0608-GG-W2.25 high temperature thermoelectric cooler uses Laird Thermal Systems' enhanced Thermoelectric Module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 3.1 Watts when ΔT

Features

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

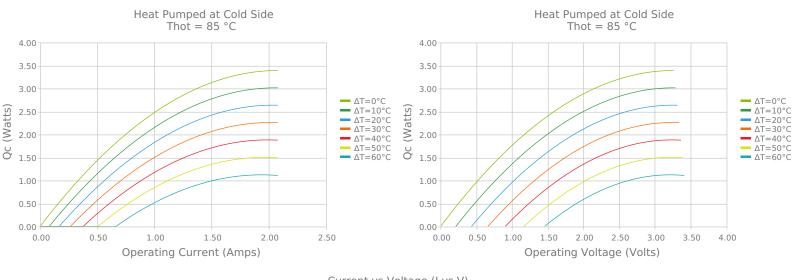


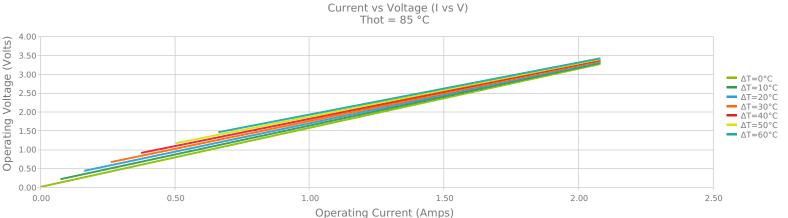
CERAMIC MATERIAL: AIN SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

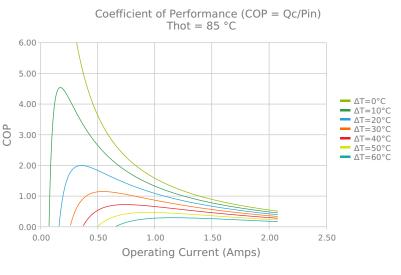
ELECTRICAL AND THERMAL PERFORMANCE

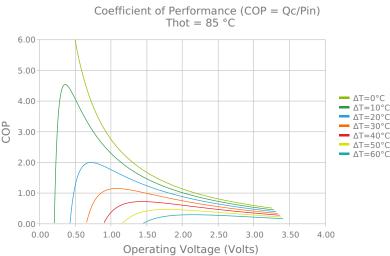
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the AMBIENT side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful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

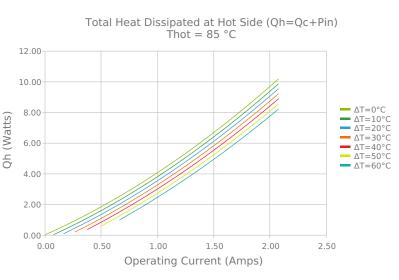


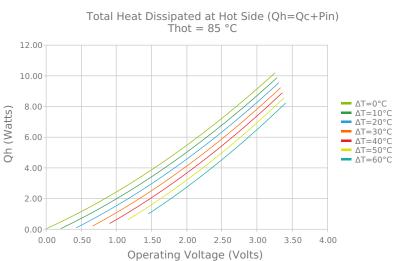


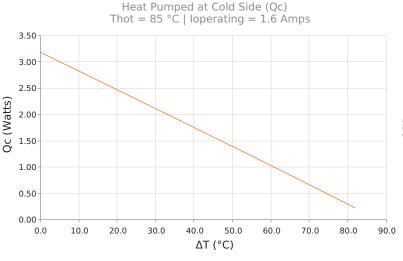


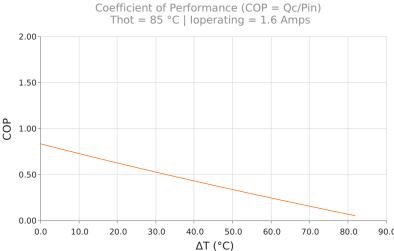














SPECIFICATIONS

Hot Side Temperature
Qcmax ($\Delta T = 0$)
$\Delta T max (Qc = 0)$
Imax (I @ ΔTmax)
Vmax (V @ ΔTmax)
Module Resistance
Max Operating Temperature
Weight

85.0 °C	110.0 °C
3.4 Watts	3.5 Watts
89.3°C	96.2°C
1.8 Amps	1.8 Amps
3.2 Volts	3.5 Volts
1.57 Ohms	1.72 Ohms
	3.4 Watts 89.3°C 1.8 Amps 3.2 Volts

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	1.981 ±0.127 mm 0.078 ± 0.0050 in	N/A / N/A	Au Plated	Au Plated	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 2019-2024 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: 06-24-2024