# HiTemp ET Series ETMS2-024-06-06-11-11-11-W2 MFG Part Number: 387001821

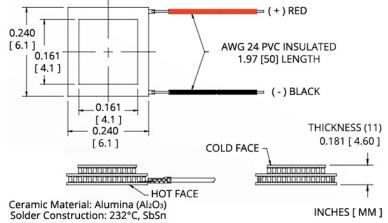
#### HiTemp ET Series Thermoelectric Cooler

The ETMS2-024-06-06-11-11-11-W2 multistage high temperature style Thermoelectric Cooler uses Laird's enhanced Thermoelectric Module construction preventing performance degrading copper diffusion, which is common in standard grade TEMs operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 0.8 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 90 °C at Qc = 0.

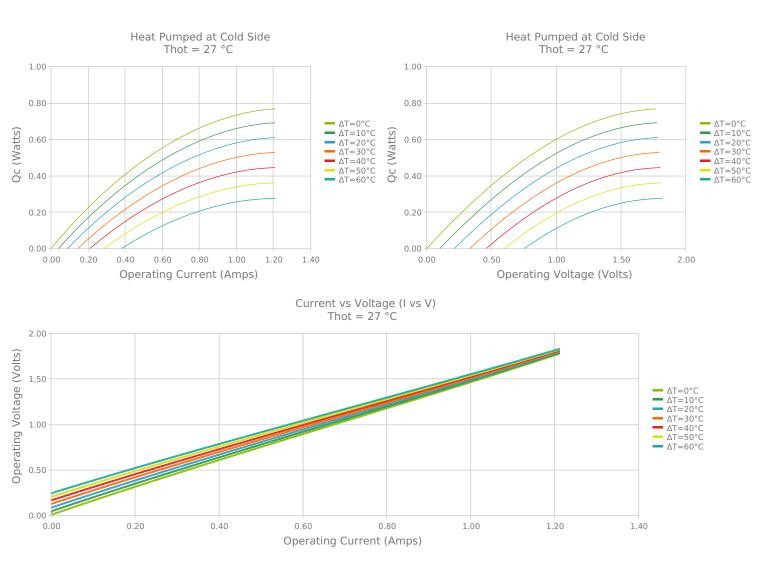
#### **Features**

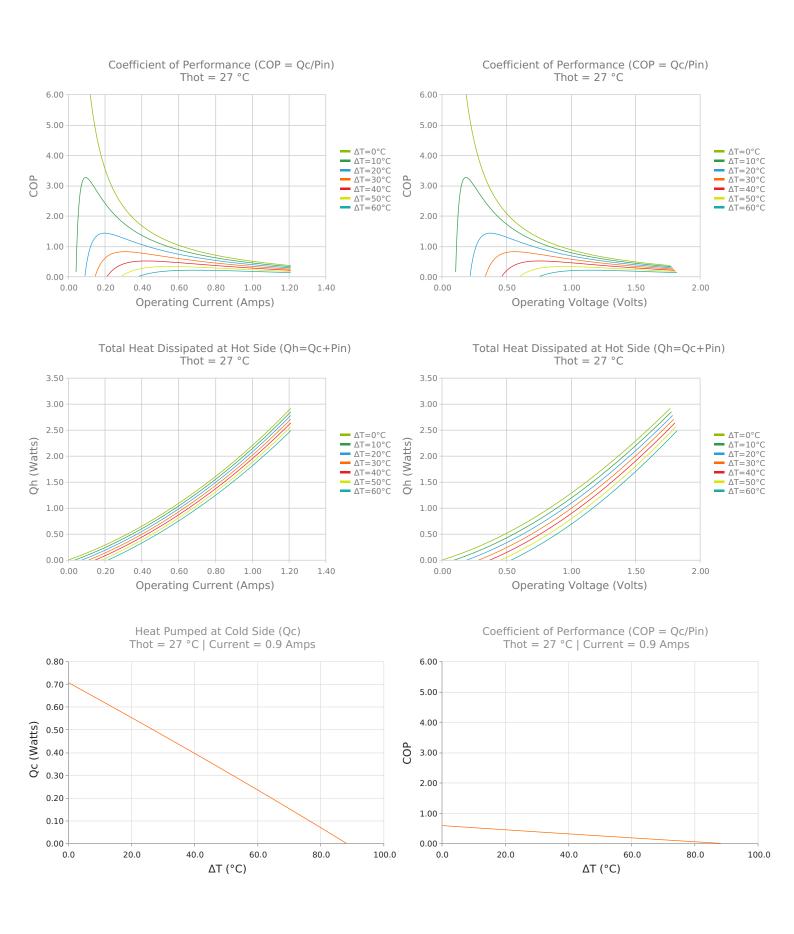
- High-temperature operation
- Reliable solid-state
- No sound or vibration
- Environmentally-friendly
- RoHS-compliant
- Applications
- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous SystemsPeltier Cooling for Digital
- Petter Cooling for Digit
  Light Processors

Received and the second second



## **ELECTRICAL AND THERMAL PERFORMANCE**





#### **SPECIFICATIONS\***

Hot Side Temperature	27.0 °C
Qcmax ( $\Delta T = 0$ )	0.8 Watts
ΔTmax (Qc = 0)	90.0 °C
lmax (I @ ΔTmax)	1.2 Amps
Vmax (V @ ΔTmax)	1.8 Volts
Module Resistance	1.50 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	$4.100 \pm 0.203 \text{ mm}$ $0.161 \pm 0.008 \text{ in}$	0.025 mm / 0.203 mm 0.001 in / 0.008 in	Lapped	Lapped	199.9 mm 7.87 in

#### **SEALING OPTIONS**

Suffix	Sealant	Color	Temp Range	Description

#### **NOTES**

- 1. Max operating temperature: 80°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 2020 Laird Thermal Systems GmbH. All Rights Reserved. Laird, Laird Technologies, Laird Thermal Systems, the Laird Logo, and other word marks and logos are trademarks or registered trademarks of Laird Limited or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

Date: 04/24/2020