

HiTemp ET Series Thermoelectric Cooler

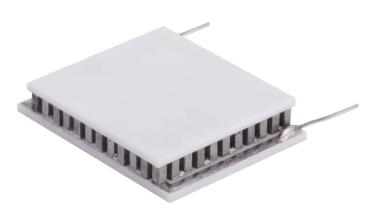
The ET12-65-F2A-1312-TB-W2.25 high temperature Thermoelectric Cooler uses Laird's enhanced Thermoelectric Module construction preventing performance degrading copper diffusion, which is common in standard grade TEMs operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 5.5 Watts when $\Delta T=0$ and a maximum ΔT of 77.9 °C at Qc =0.

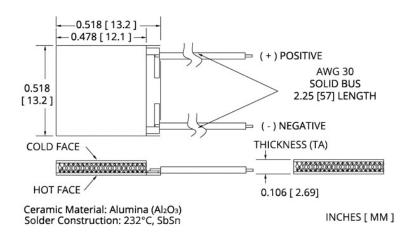
Features

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

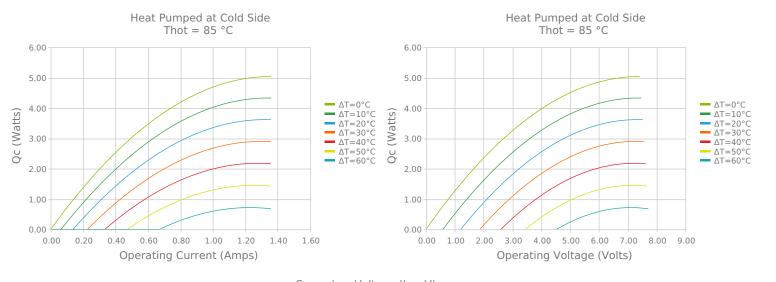
Applications

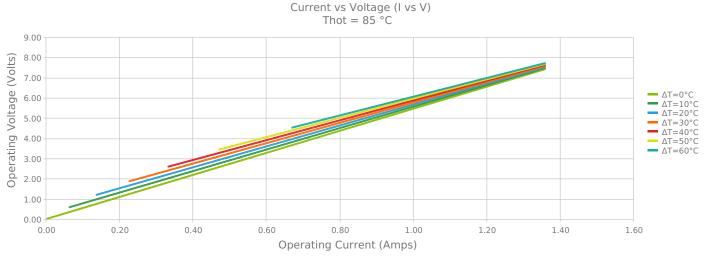
- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital
- Light Processors



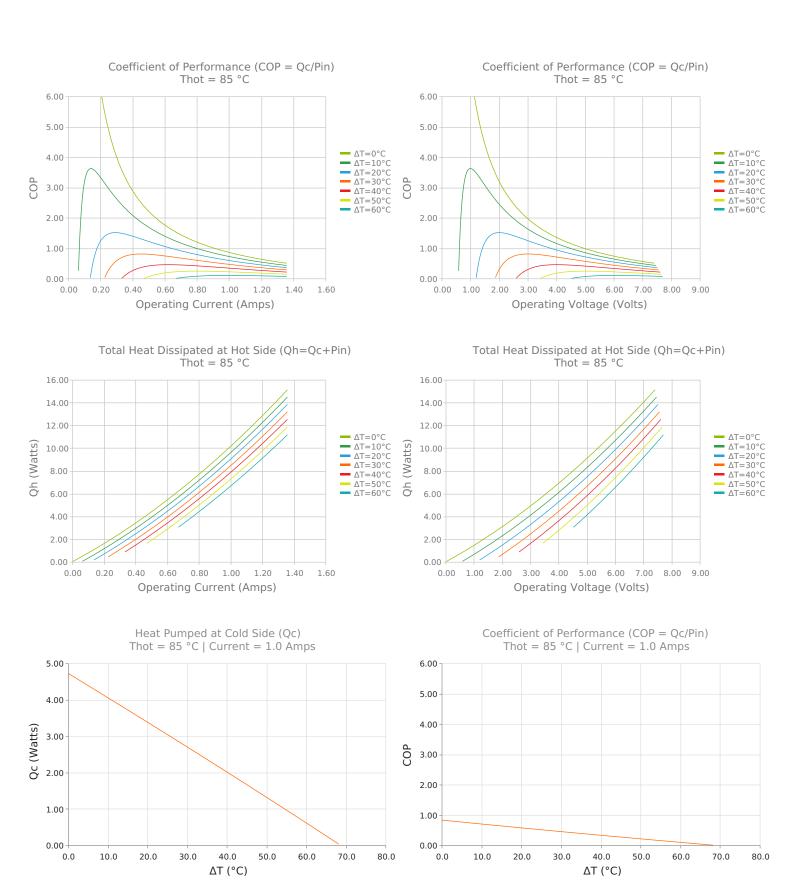


ELECTRICAL AND THERMAL PERFORMANCE











SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ \Darmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C
5.5 Watts	6.0 Watts	6.3 Watts
77.9°C	89.3°C	96.2°C
1.2 Amps	1.2 Amps	1.1 Amps
7.8 Volts	9.0 Volts	9.8 Volts
6.11 Ohms	7.09 Ohms	7.76 Ohms
150 °C		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	2.692 ±0.013 mm 0.106 ± 0.001 in		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

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^{*} Specifications reflect thermoelectric coefficients updated March 2020