

HiTemp ET Series Thermoelectric Cooler

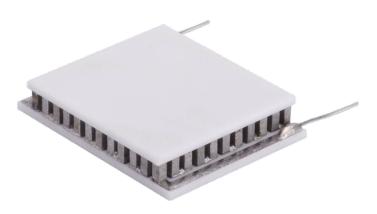
The ET15-65-F2A-1312-11-W2.25 high temperature Thermoelectric Cooler uses Laird's enhanced Thermoelectric Module construction preventing performance degrading copper diffusion, which is common in standard grade TEMs operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 6.8 Watts when $\Delta T=0$ and a maximum ΔT of 77.9 °C at Qc = 0.

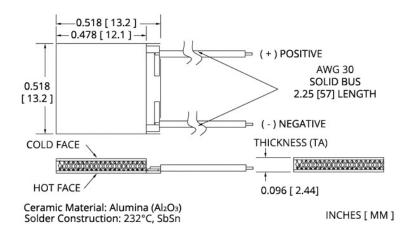
Features

- High-temperature operation
- Reliable solid-state
- No sound or 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





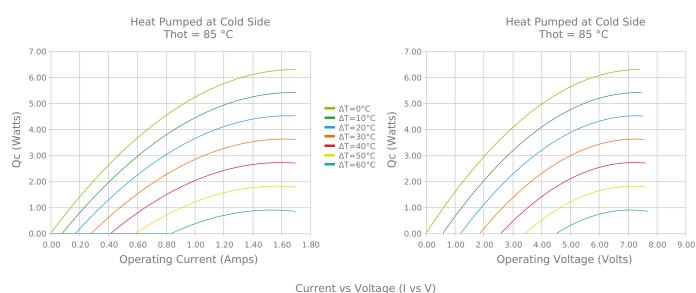
__ ΔT=0°C __ ΔT=10°C

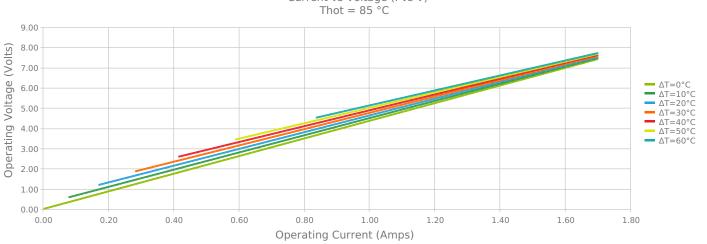
__ ΔT=20°C __ ΔT=30°C

__ ΔT=40°C

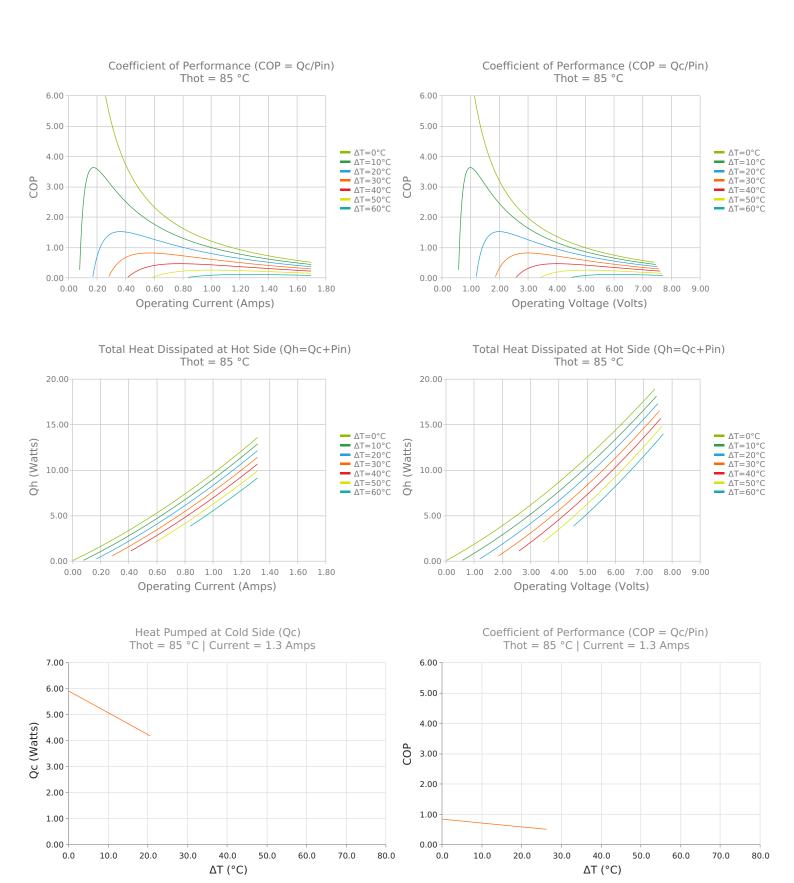
ΔT=50°C ΔT=60°C

ELECTRICAL AND THERMAL PERFORMANCE











SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C
6.8 Watts	7.5 Watts	7.8 Watts
77.9°C	89.3°C	96.2°C
1.5 Amps	1.4 Amps	1.4 Amps
7.8 Volts	9.0 Volts	9.8 Volts
4.88 Ohms	5.67 Ohms	6.21 Ohms
150 °C		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	ffix Thickness Flatness / Parallelis		Hot Face	Cold Face	Lead Length
11	2.440 ±0.051 mm 0.096 ± 0.002 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
	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