

HiTemp ETX Series Thermoelectric Cooler

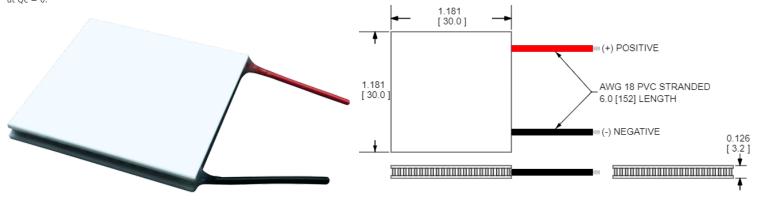
The ETX6-12-F1-3030-TA-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 59.4 Watts when $\Delta T=0$ and a maximum ΔT of 83.2 °C at $\Delta T=0$.

Features

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

Applications

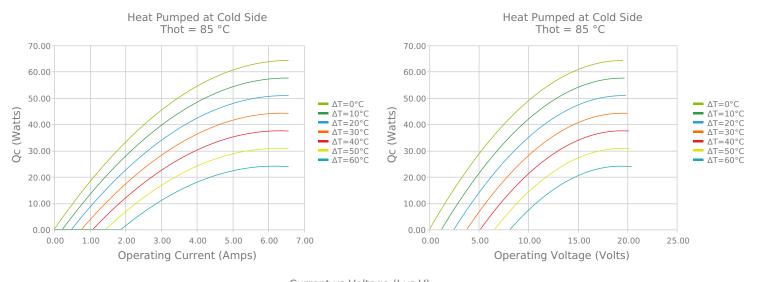
- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital Light Processors
- Heating and Cooling for Liquid Chromatography Systems
 - Thermoelectric Cooling for Security Cameras

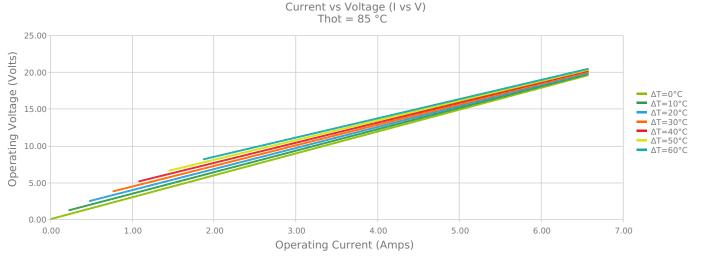


CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 232°C, SbSn

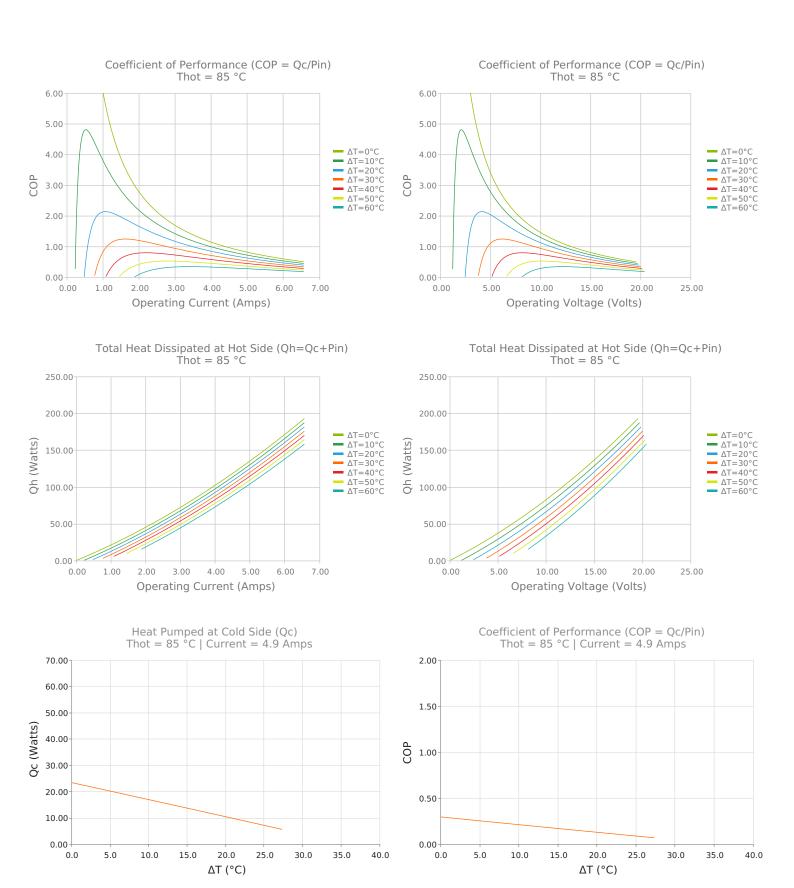
INCHES [MM]

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
59.4 Watts	64.3 Watts	66.3 Watts
83.2°C	95.3°C	102.0°C
6.1 Amps	5.9 Amps	5.7 Amps
16.6 Volts	19.1 Volts	20.8 Volts
2.55 Ohms	2.97 Ohms	3.26 Ohms
150 °C		
13.0 gram(s)		

FINISHING OPTIONS

Suf	ffix	Thickness	Flatness / Parallelism	Flatness / Parallelism Hot Face		Lead Length
Т	ГА	3.200 ±0.254 mm 0.126 ± 0.0100 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 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