

HiTemp ETX Series Thermoelectric Cooler

The ETX9-3-F2-2525-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 23.6 Watts when $\Delta T=0$ and a maximum ΔT of 83.2 °C at Qc = 0.

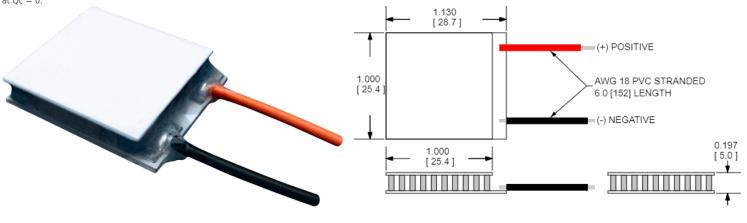
Features

- 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
- Heating and Cooling for Liquid Chromatography Systems

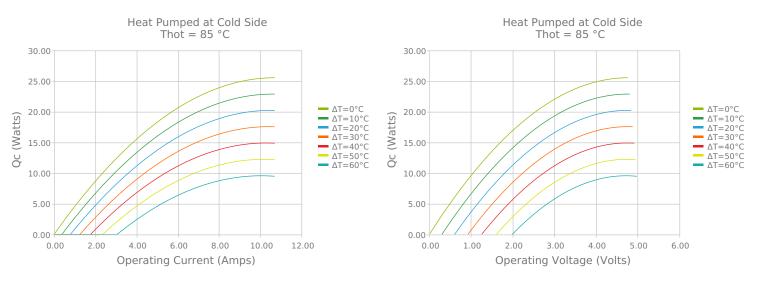


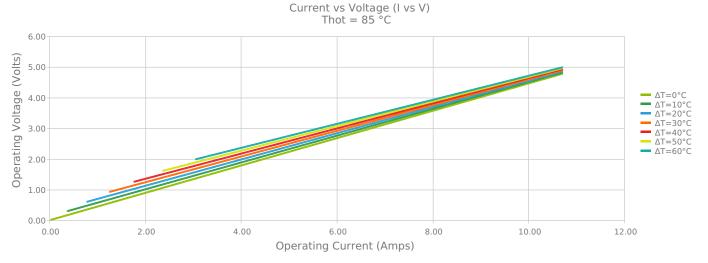


CERAMIC MATERIAL: Al₂O₃
SOLDER CONSTRUCTION: 232°C, SbSn

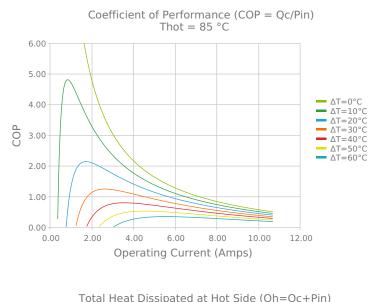
INCHES [MM]

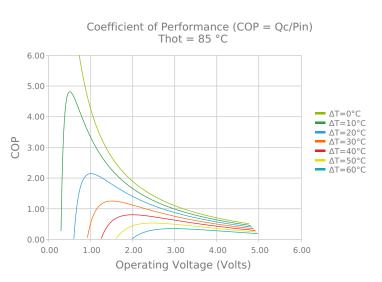
ELECTRICAL AND THERMAL PERFORMANCE

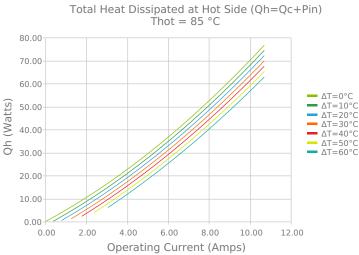


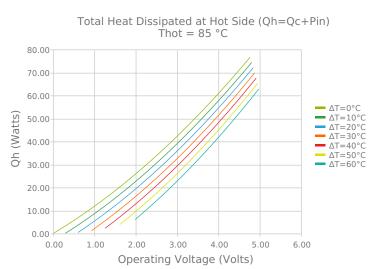


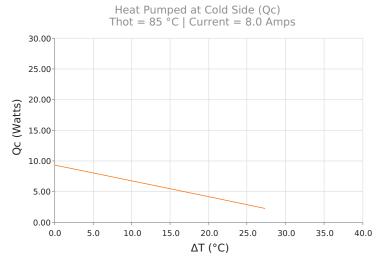


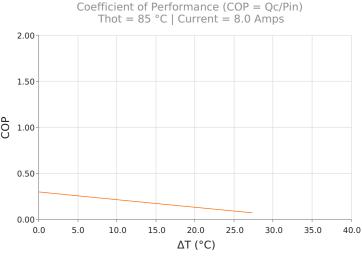














SPECIFICATIONS*

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
23.6 Watts	25.5 Watts	26.3 Watts
83.2°C	95.3°C	102.0°C
9.9 Amps	9.5 Amps	9.3 Amps
4.1 Volts	4.7 Volts	5.1 Volts
0.38 Ohms	0.45 Ohms	0.49 Ohms
150 °C		
17.0 gram(s)		

FINISHING OPTIONS

Suffix Thickness		Flatness / Parallelism	Hot Face	Cold Face	Lead Length
TA	5.004 ±0.254 mm 0.197 ± 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
Nor		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