HiTemp ETX Series ETX4-12-F1-3030-TA-EP-W6 MFG Part Number: 387004965

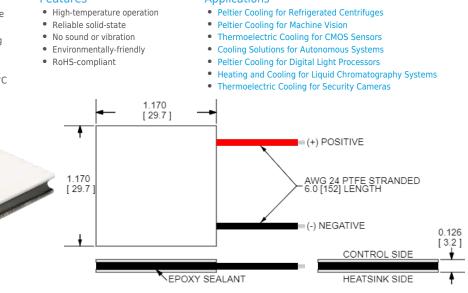
HiTemp ETX Series Thermoelectric Cooler

The ETX4-12-F1-3030-TA-EP-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 38.8 Watts when $\Delta T = 0$ and a maximum ΔT of 83.2 °C at Qc = 0.

\$26200¹

Features

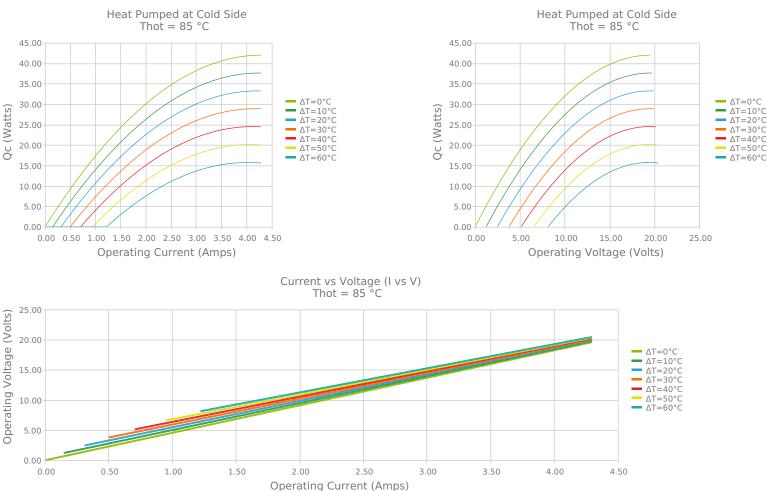
Applications

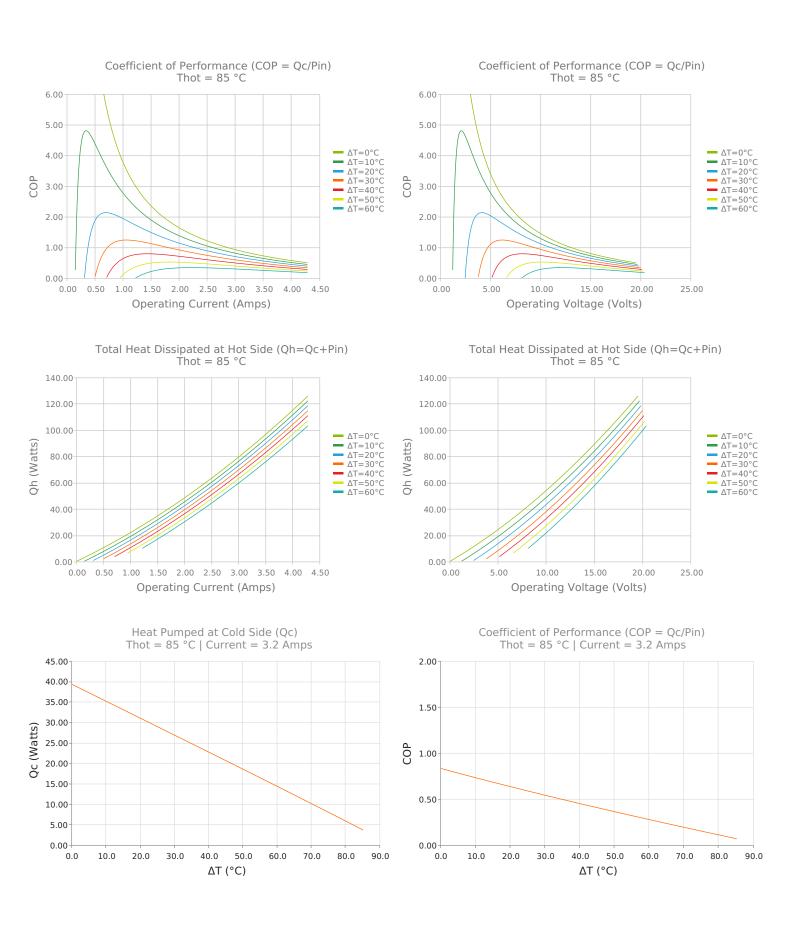


CERAMIC MATERIAL: Al₂O₂ SOLDER CONSTRUCTION: 232°C, SbSn INCHES [MM] Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.





SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	38.8 Watts	42.0 Watts	43.3 Watts
$\Delta T max (Qc = 0)$	83.2°C	95.3°C	102.0°C
lmax (I @ ΔTmax)	4.0 Amps	3.8 Amps	3.7 Amps
Vmax (V @ ΔTmax)	16.6 Volts	19.1 Volts	20.8 Volts
Module Resistance	3.91 Ohms	4.56 Ohms	4.99 Ohms
Max Operating Temperature	150 °C		
Weight	9.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТА	3.200 ±0.025 mm 0.126 ± 0.0010 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
EP	Ероху	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant

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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