HiTemp ETX Series Thermoelectric Cooler

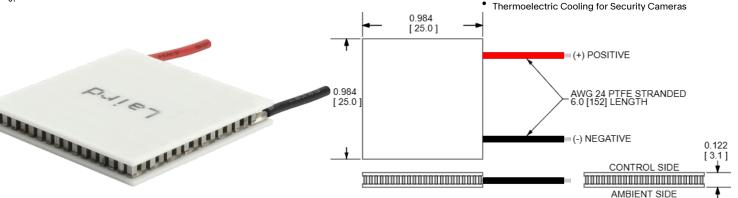
The ETX2.6-12-F1-2525-TA-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 25.5 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 vibration
- Environmentally-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

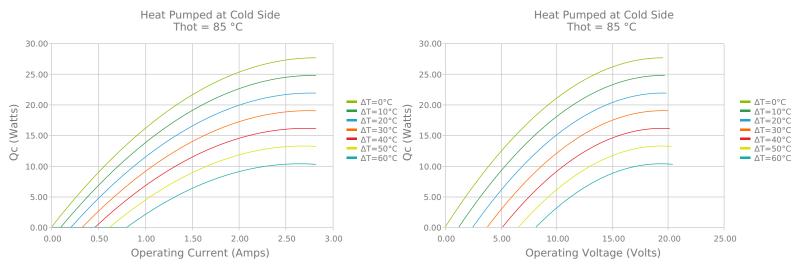


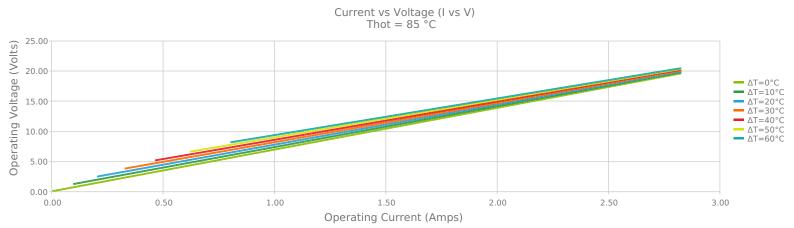
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

Electrical and Thermal Performance

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the AMBIENT 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.







5.00

0.00

0.0

20.0

30.0

10.0

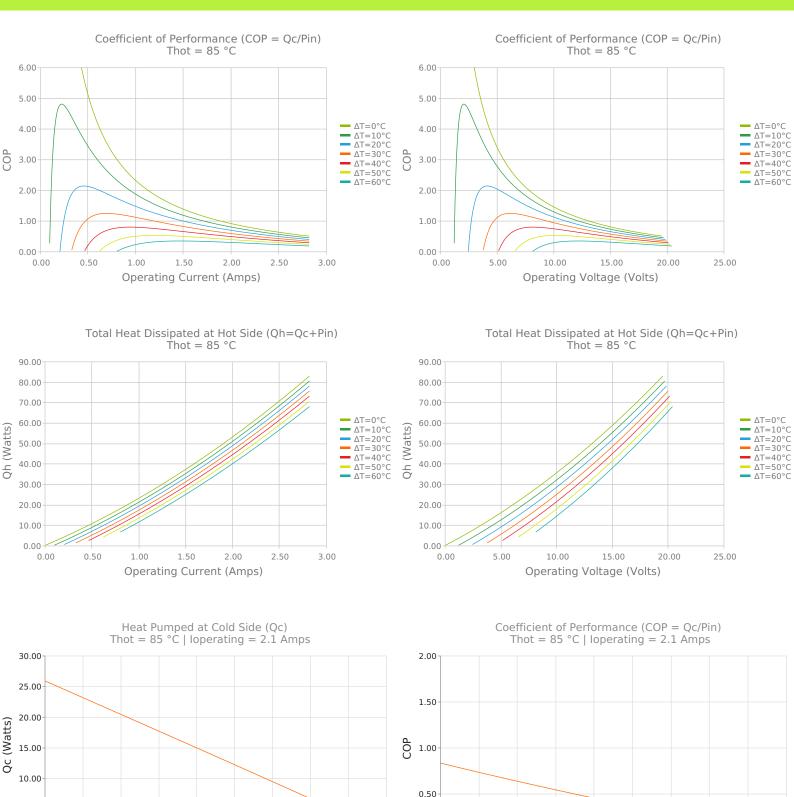
40.0

ΔT (°C)

50.0

60.0

70.0



0.00

0.0

10.0

30.0

20.0

40.0

50.0

ΔT (°C)

60.0

70.0

90.0

80.0

90.0

80.0



Specifications

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax ($\Delta T = 0$)	25.5 Watts	27.6 Watts	28.5 Watts
$\Delta T max (Qc = 0)$	83.2°C	95.3°C	102.0°C
Imax (I @ Δ Tmax)	2.6 Amps	2.5 Amps	2.5 Amps
Vmax (V @ ΔTmax)	16.6 Volts	19.1 Volts	20.8 Volts
Module Resistance	5.93 Ohms	6.92 Ohms	7.58 Ohms
Max Operating Temperature	150 °C		
Weight	6.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
TA	$3.099 \pm 0.025 \text{ mm}$ $0.122 \pm 0.0010 \text{ in}$	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

Max operating temperature: 150°C Do not exceed Imax or Vmax when operating module

Reference assembly guidelines for recommended installation

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