

HiTemp ETX Series Thermoelectric Cooler

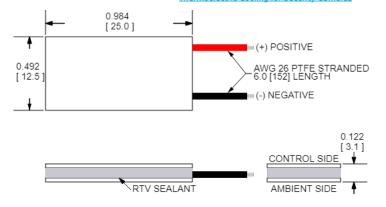
The ETX2.6-6-F1-1225-TA-RT-W6 high temperature, highperformance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 12.7 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
 Thermoelectric Cooling for Security Cameras



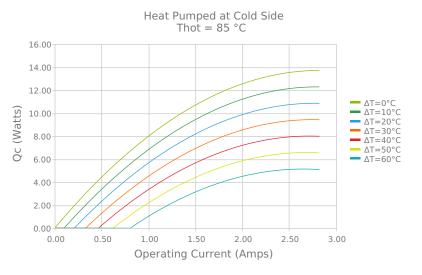
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C, SbSn

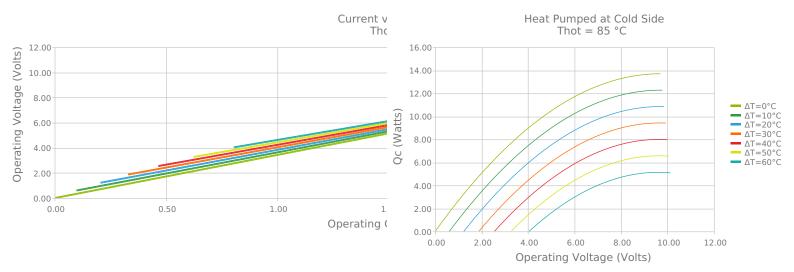
INCHES [MM]

Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

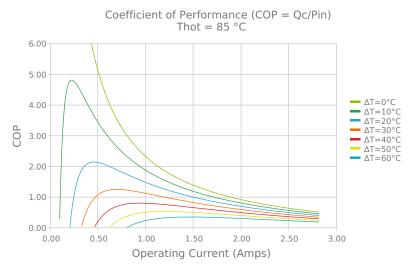
ELECTRICAL AND THERMAL PERFORMANCE

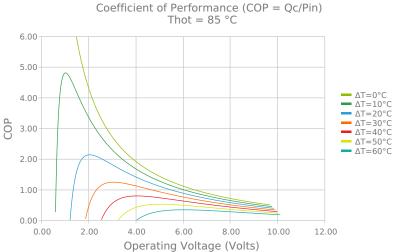
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the AMBIENT side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful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

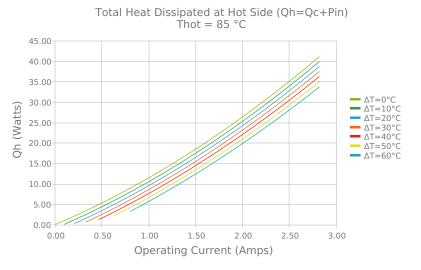
















SPECIFICATIONS

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ \Delta Tmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C
12.7 Watts	13.7 Watts	14.1 Watts
83.2°C	95.3°C	102.0°C
2.6 Amps	2.5 Amps	2.5 Amps
8.2 Volts	9.5 Volts	10.3 Volts
2.94 Ohms	3.43 Ohms	3.76 Ohms
150 °C		
4.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
TA	3.099 ±0.025 mm 0.122 ± 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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

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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