

#### HiTemp ETX Series Thermoelectric Cooler

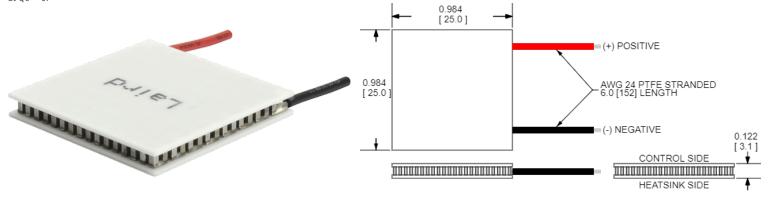
The ETX2.6-12-F1-2525-TA-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 25.5 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  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

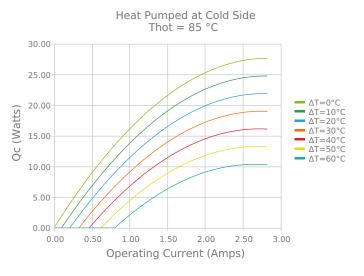


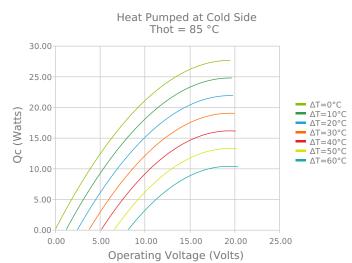
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C, SbSn

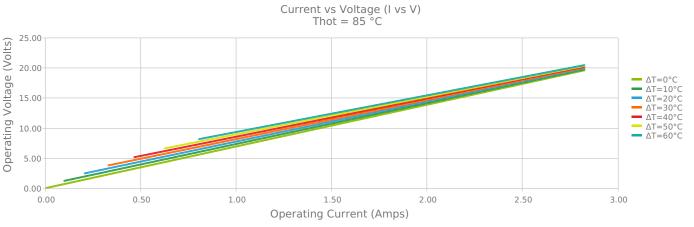
INCHES [ MM ]

#### **ELECTRICAL AND THERMAL PERFORMANCE**

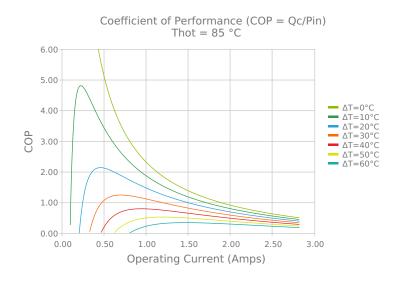
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

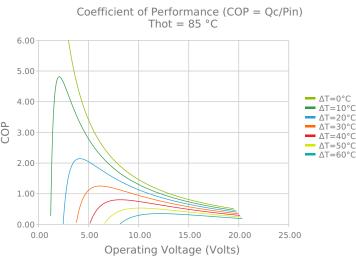


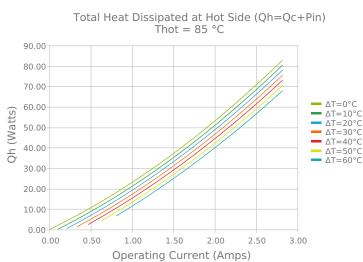


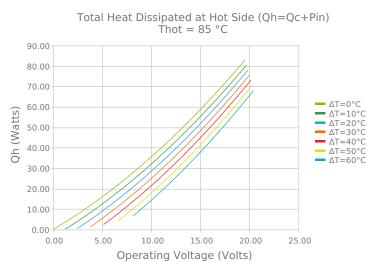


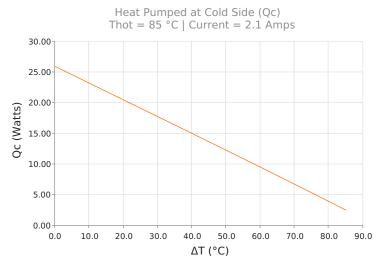


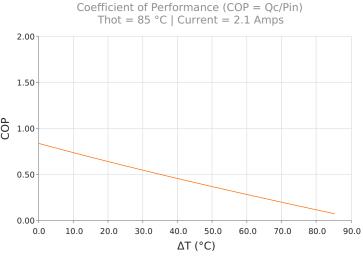














### **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darkstrum \

Vmax (V @  $\Delta$ Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

<b>50.0</b> °C	85.0 °C	110.0 °C
25.5 Watts	27.6 Watts	28.5 Watts
83.2°C	95.3°C	102.0°C
2.6 Amps	2.5 Amps	2.5 Amps
16.6 Volts	19.1 Volts	20.8 Volts
5.93 Ohms	6.92 Ohms	7.58 Ohms
150 °C		
6.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>
ТА	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	<b>Temp Range</b>	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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<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020