

# **Legacy Product**

## HiTemp ET Series Thermoelectric Cooler

#### Note: This product is not recommended for new designs.

Laird THERMAL SYSTEMS

This product series has been replaced with the HiTemp ETX Series. The recommended replacement is:

MFG Part Number: 387006783

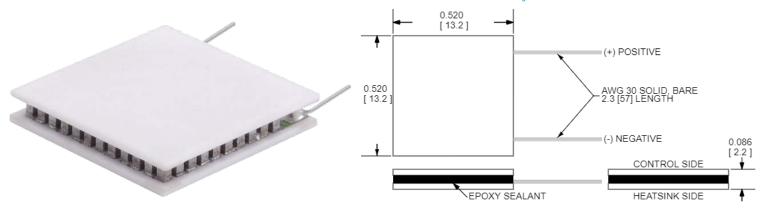
Description: OTX20-68-F1A-1313-11-EP-W2.25

#### **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



CERAMIC MATERIAL: Al2O3

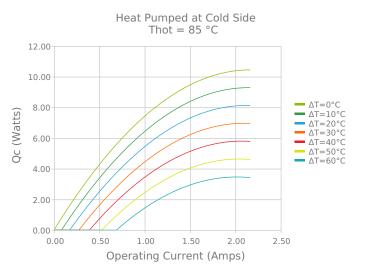
SOLDER CONSTRUCTION: 232°C, SbSn

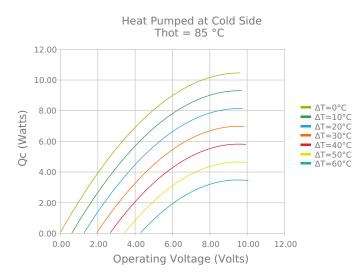
INCHES [ MM ]

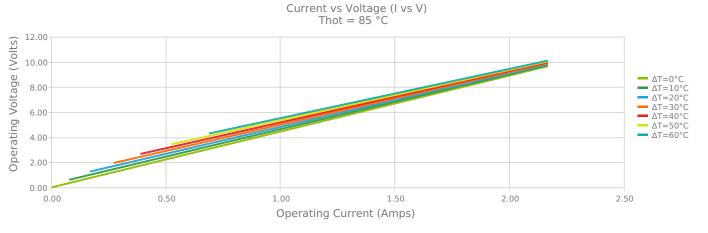
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

## **ELECTRICAL AND THERMAL PERFORMANCE**

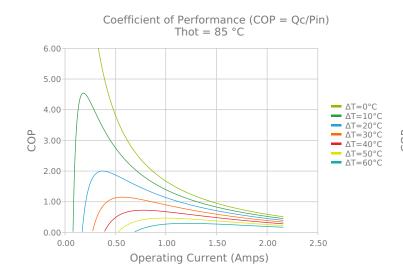
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

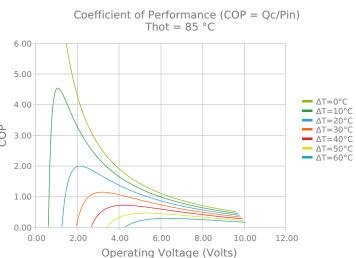


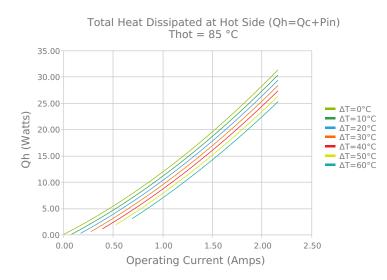


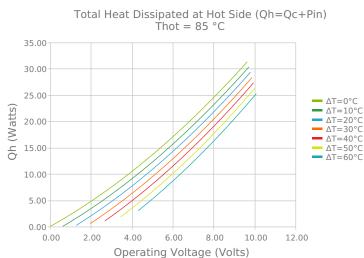


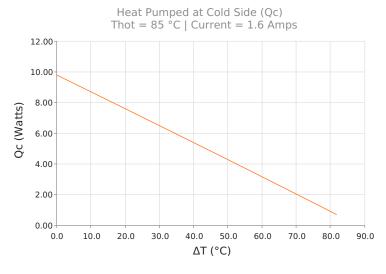


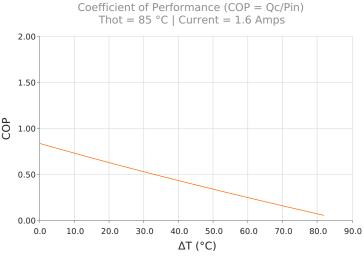














# **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darmax)

Vmax (V @  $\Delta$ Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

50.0 °C	85.0 °C	110.0 °C
9.5 Watts	10.4 Watts	10.9 Watts
77.9°C	89.3°C	96.2°C
2.0 Amps	1.9 Amps	1.9 Amps
8.2 Volts	9.4 Volts	10.2 Volts
3.83 Ohms	4.45 Ohms	4.87 Ohms
150 °C		
2.0 gram(s)		

## **FINISHING OPTIONS**

S	uffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>
	11	2.184 ±0.051 mm 0.086 ± 0.0020 in	0.051 mm / 0.051 mm 0.002 in / 0.002 in	Lapped	Lapped	50.8 mm 2.00 in

## **SEALING OPTIONS**

Suffix	Sealant	Color	<b>Temp Range</b>	Description
EP	Epoxy	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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<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020