

#### HiTemp ETX Series Thermoelectric Cooler

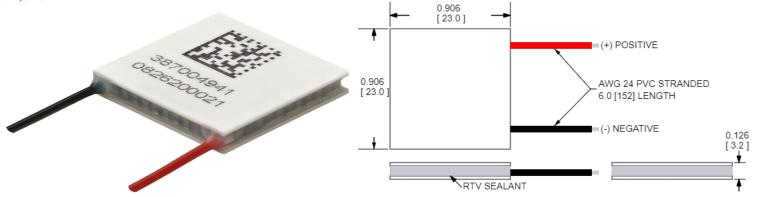
The ETX4-7-F1-2323-TA-RT-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 21.7 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-friendlyRoHS-compliant

#### **Applications**

- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous SystemsPeltier Cooling for Digital Light Processors
- Heating and Cooling for Liquid Chromatography Systems
- Thermoelectric Cooling for Security Cameras

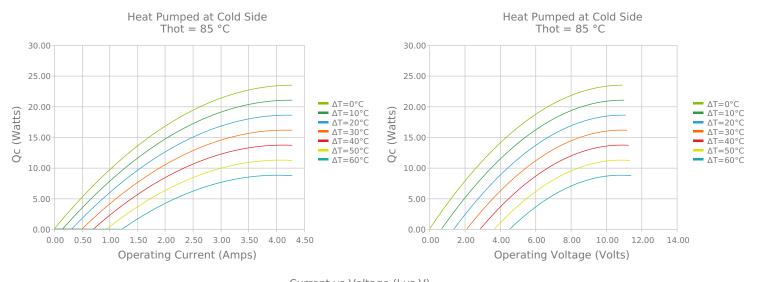


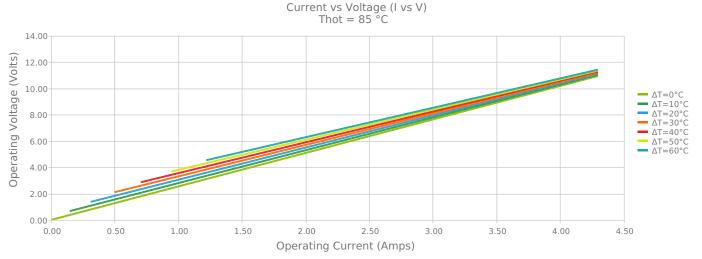
CERAMIC MATERIAL: Al₂O₂ SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [ MM ]

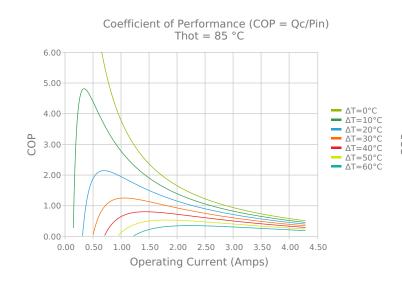
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

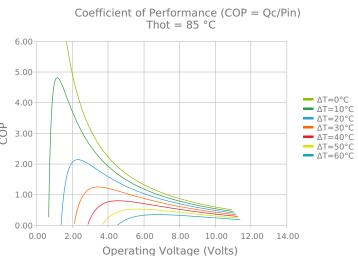
#### **ELECTRICAL AND THERMAL PERFORMANCE**

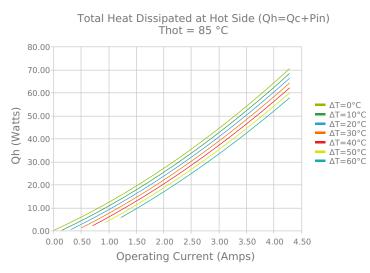


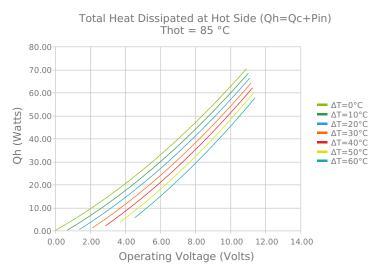


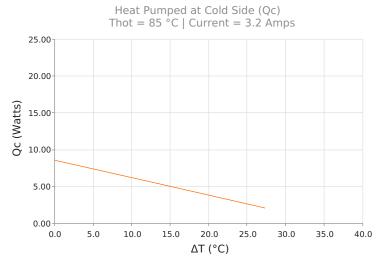


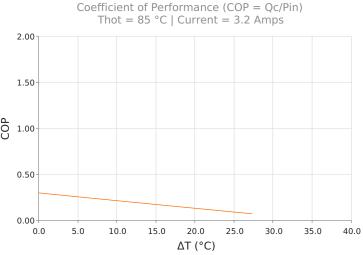














# **SPECIFICATIONS\***

**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
21.7 Watts	23.5 Watts	24.2 Watts
83.2°C	95.3°C	102.0°C
4.0 Amps	3.8 Amps	3.7 Amps
9.3 Volts	10.7 Volts	11.6 Volts
2.18 Ohms	2.55 Ohms	2.79 Ohms
150 °C		
6.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	<b>Cold Face</b>	<b>Lead Length</b>
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	<b>Temp Range</b>	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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Date: 12/14/2021

<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020

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