

HiTemp ETX Series Thermoelectric Cooler

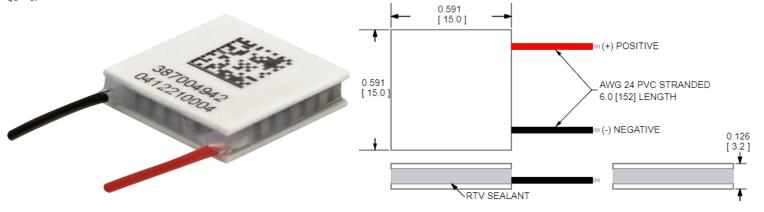
The ETX4-3-F1-1515-TA-RT-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 9.5 Watts when $\Delta T=0$ and a maximum ΔT of 83.2 °C at $\Omega C=0$

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 Systems
- Peltier Cooling for Digital Light Processors
- Heating and Cooling for Liquid Chromatography Systems
- Thermoelectric Cooling for Security Cameras

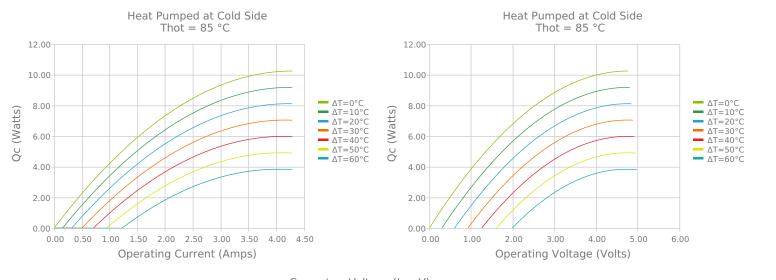


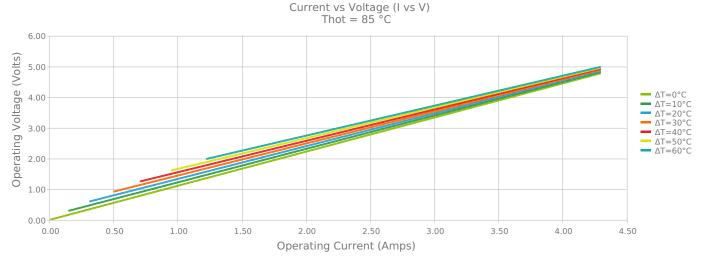
CERAMIC MATERIAL: Al₂O₃
SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

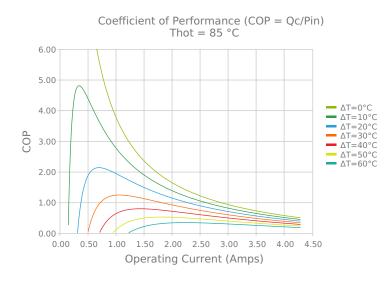
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

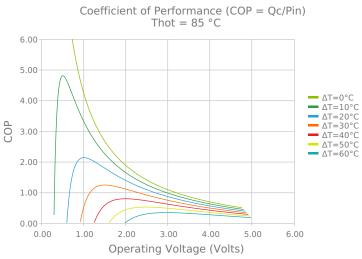
ELECTRICAL AND THERMAL PERFORMANCE

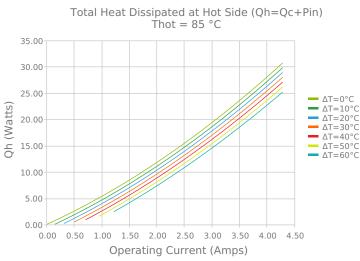


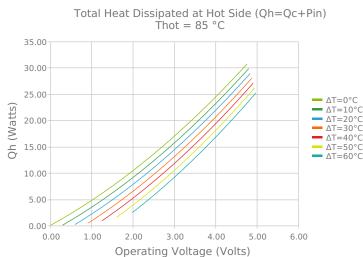


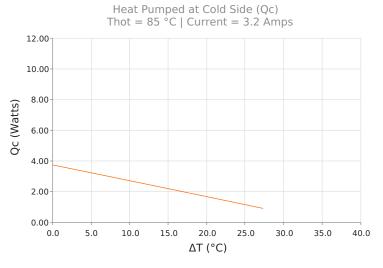


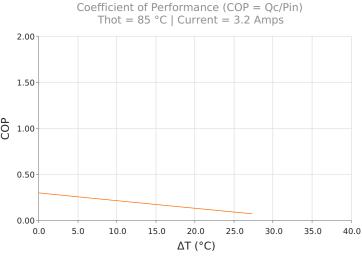














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C	
9.5 Watts	10.2 Watts	10.6 Watts	
83.2°C	95.3°C	102.0°C	
4.0 Amps	3.8 Amps	3.7 Amps	
4.1 Volts	4.7 Volts	5.1 Volts	
0.95 Ohms	1.11 Ohms	1.22 Ohms	
150 °C			
3.0 gram(s)			

FINISHING OPTIONS

Suffix		Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
	TA	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	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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Date: 12/14/2021

^{*} Specifications reflect thermoelectric coefficients updated March 2020

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