

HiTemp ETX Series Thermoelectric Cooler

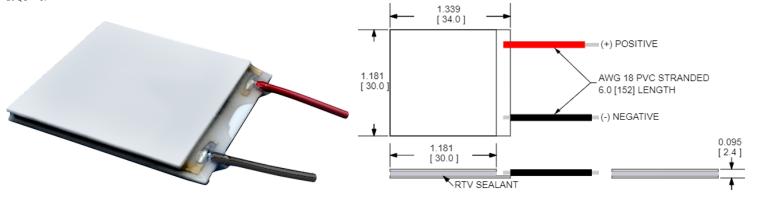
The ETX11-12-F2-3030-TA-RT-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 108.2 Watts when $\Delta T=0$ and a maximum ΔT of 83.2 °C at $\Delta T=0$.

Features

- High-temperature operation
- Reliable solid-stateNo 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 ProcessorsHeating and Cooling for Liquid Chromatography Systems
- Thermoelectric Cooling for Security Cameras



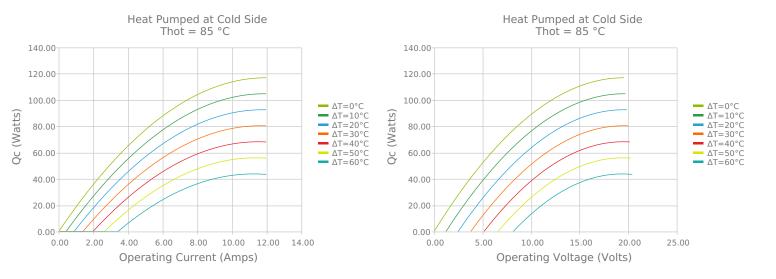
CERAMIC MATERIAL: Al₂O₃

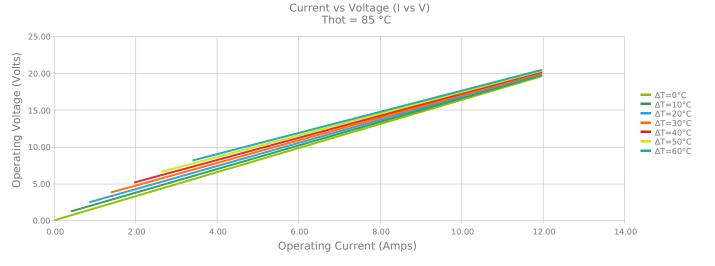
SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

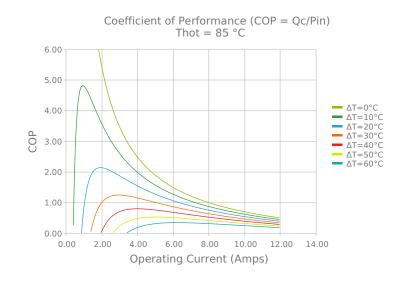
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

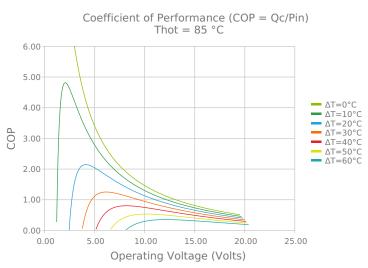
ELECTRICAL AND THERMAL PERFORMANCE

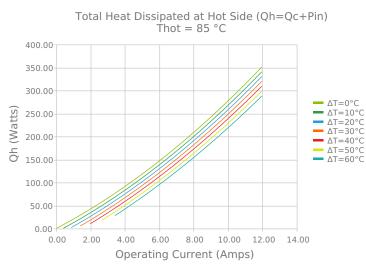


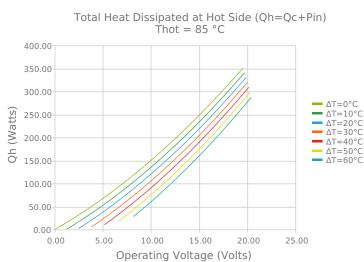


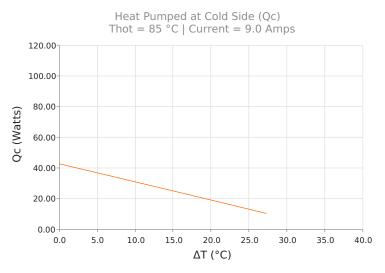


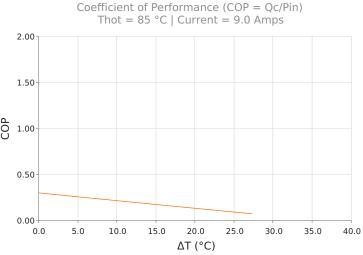














SPECIFICATIONS*

Hot Side Temperature

not side remperature
Qcmax ($\Delta T = 0$)
$\Delta T max (Qc = 0)$
lmax (I @ ΔTmax)
Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

50.0 °C	85.0 °C	110.0 °C
108.2 Watts	117.0 Watts	120.7 Watts
83.2°C	95.3°C	102.0°C
11.0 Amps	10.7 Amps	10.4 Amps
16.6 Volts	19.1 Volts	20.8 Volts
1.40 Ohms	1.63 Ohms	1.79 Ohms
150 °C		
11.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
		0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	nt 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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^{*} Specifications reflect thermoelectric coefficients updated March 2020