Legacy Product



HiTemp ET Series Thermoelectric Cooler

Note: This product is not recommended for new designs.

The recommended replacement is: MFG Part Number: 387006898

Description: OTX19-35-F1N-0612-11-W2.25

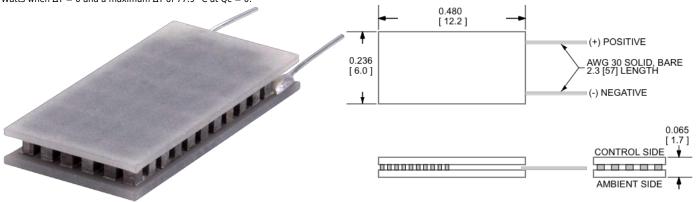
The ET19-35-F1N-0612-11-W2.25 high temperature thermoelectric cooler uses Laird Thermal Systems' enhanced Thermoelectric Module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 4.7 Watts when $\Delta T = 0$ and a maximum ΔT of 77.9 °C at Oc = 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



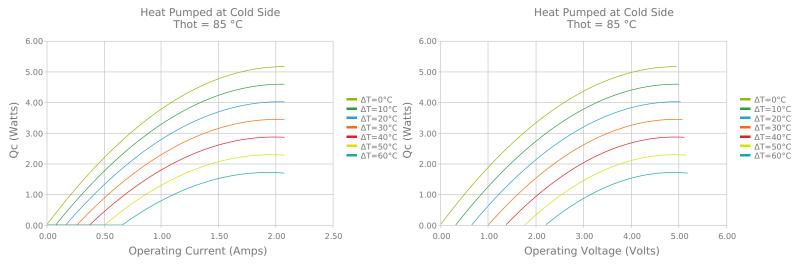
CERAMIC MATERIAL: AIN

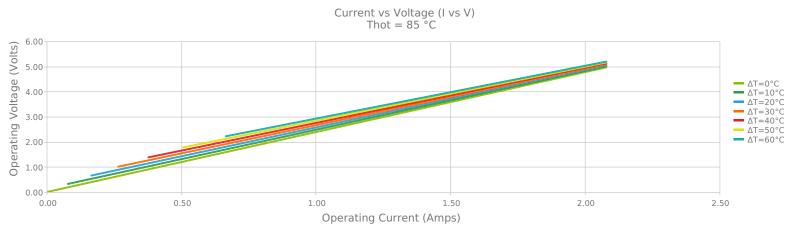
SOLDER CONSTRUCTION: 232°C, SbSn

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 AMBIENT 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.







2.00

1.00

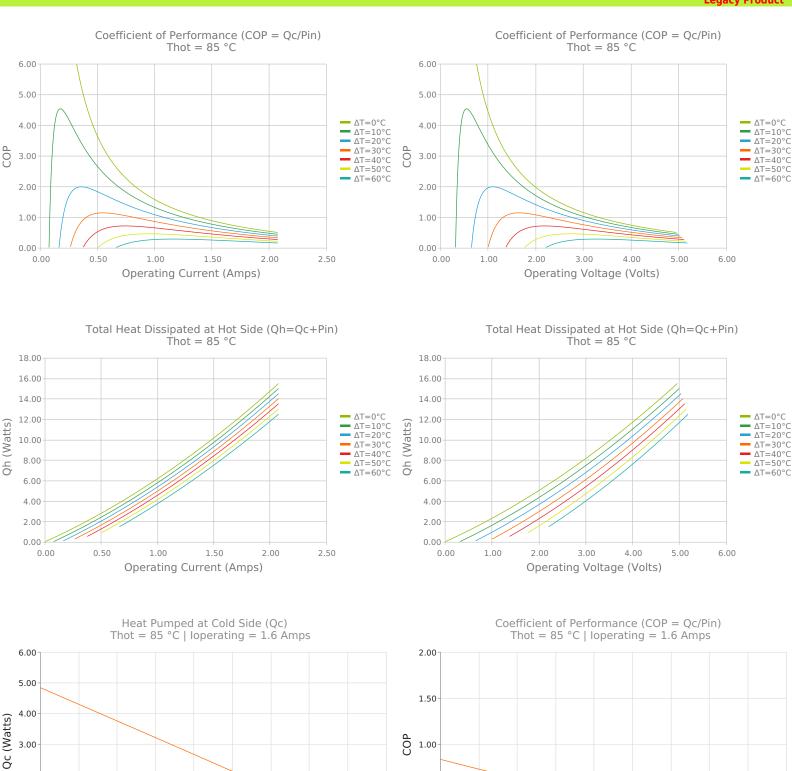
0.00

0.0

10.0

20.0

30.0



0.50

0.00

0.0

10.0

20.0

30.0

40.0

50.0

ΔT (°C)

60.0

70.0

90.0

80.0

50.0

ΔT (°C)

60.0

70.0

80.0

90.0

40.0



Specifications

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax ($\Delta T = 0$)	4.7 Watts	5.2 Watts	5.4 Watts
$\Delta T max (Qc = 0)$	77.9°C	89.3°C	96.2°C
Imax (I @ ΔTmax)	1.9 Amps	1.8 Amps	1.8 Amps
Vmax (V @ Δ Tmax)	4.2 Volts	4.8 Volts	5.3 Volts
Module Resistance	2.05 Ohms	2.39 Ohms	2.61 Ohms
Max Operating Temperature	150 °C		
Weight	1.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	1.651 ±0.051 mm 0.065 ± 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	Temp Range	Description
	None			No sealing specified

Notes

Max operating temperature: 150°C Do not exceed Imax or Vmax when operating module Reference assembly guidelines for recommended installation

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