

# HiTemp ET Series ET12-18-F2A-0606-11-W2.25 MFG Part Number: 387001814 Legacy Product

### HiTemp ET Series Thermoelectric Cooler

#### Note: This product is not recommended for new designs. This product series has been replaced with the HiTemp ETX Series. The recommended replacement is: MFG Part Number: 387006801

Description: OTX12-18-F0-0606-11-W2.25

#### **Features**



- RoHS-compliant
- **Applications**  Peltier Cooling for Refrigerated Centrifuges Reliable solid-state • Peltier Cooling for Machine Vision No sound or vibration • Thermoelectric Cooling for CMOS Sensors Cooling Solutions for Autonomous Systems · Environmentally-friendly Peltier Cooling for Digital Light Processors 0.283 [7.2] (+) POSITIVE 0.236 [6.0] AWG 30 SOLID, BARE 2.3 [57] LENGTH (-) NEGATIVE 0.106 0.244 [2.7] [6.2 CONTROL SIDE

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

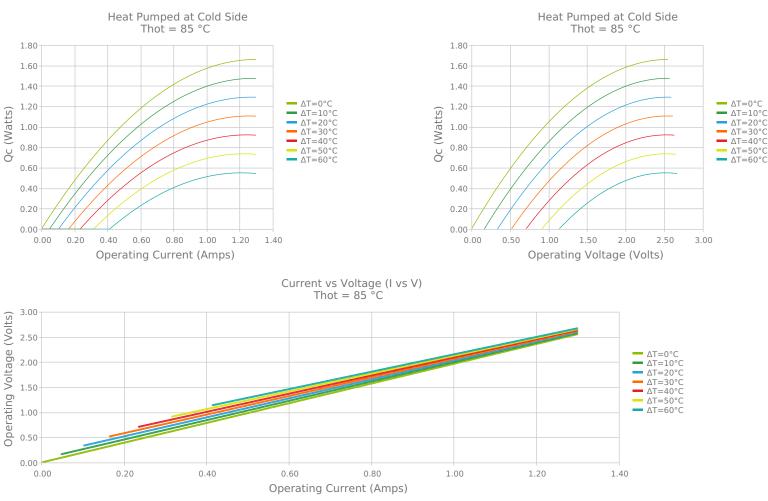
INCHES [ MM ]

HEATSINK SIDE

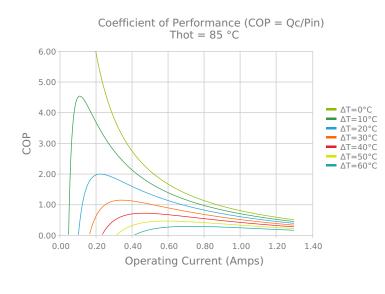
### **ELECTRICAL AND THERMAL PERFORMANCE**

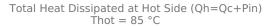
IL

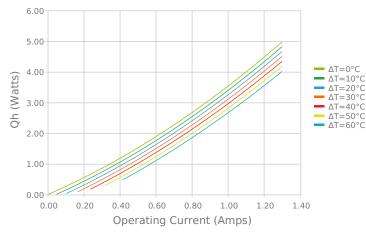
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

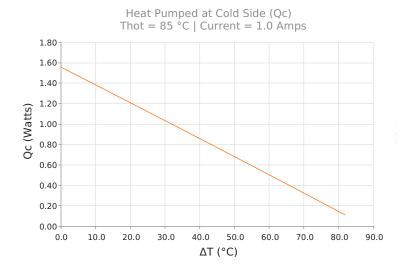


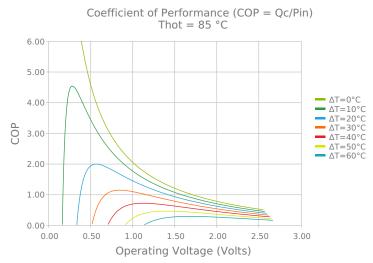


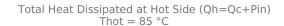


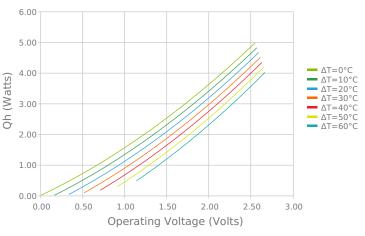




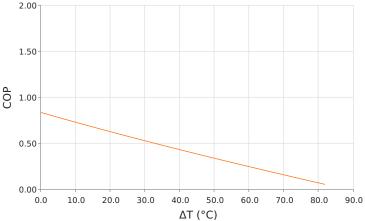








Coefficient of Performance (COP = Qc/Pin) Thot = 85 °C | Current = 1.0 Amps



## **SPECIFICATIONS\***

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	1.5 Watts	1.7 Watts	1.7 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
lmax (I @ ΔTmax)	1.2 Amps	1.2 Amps	1.1 Amps
Vmax (V @ ΔTmax)	2.2 Volts	2.5 Volts	2.7 Volts
Module Resistance	1.69 Ohms	1.96 Ohms	2.15 Ohms
Max Operating Temperature	150 °C		
Weight	1.0 gram(s)		

\* Specifications reflect thermoelectric coefficients updated March 2020

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	2.692 ±0.051 mm 0.106 ± 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

- 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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