

## HiTemp ET Series ET6-19-F1-4040-TA-RT-W6 MFG Part Number: 387002317

Legacy Product

### **HiTemp ET Series Thermoelectric Cooler**

- Note: This product is not recommended for new designs.
- The recommended replacement is:
- MFG Part Number: 387004937 Description: ETX6-19-F1-4040-TA-RT-W6

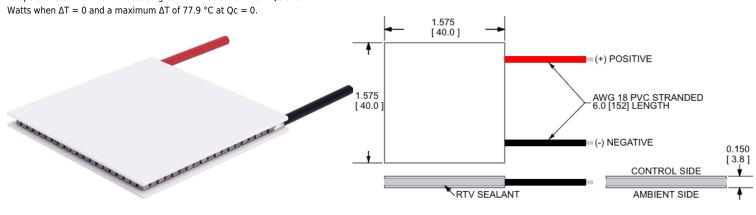
The ET6-19-F1-4040-TA-RT-W6 high temperature thermoelectric cooler uses Laird Thermal Systems' enhanced Thermoelectric Module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 82.2

#### 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

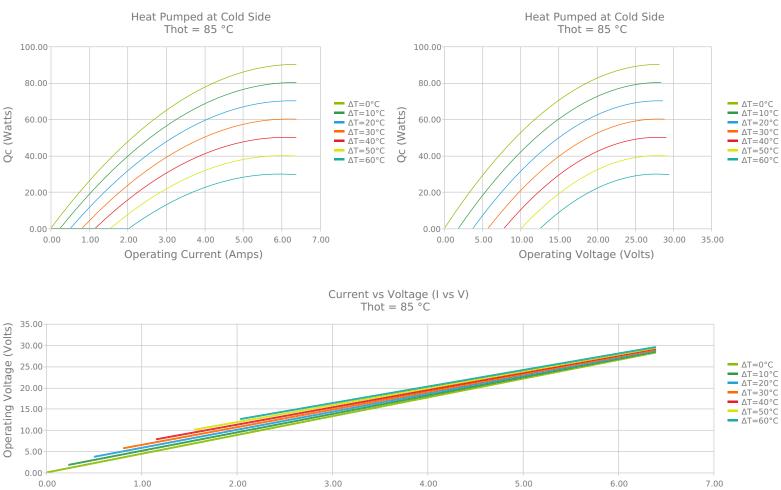


CERAMIC MATERIAL: AI\_O

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**

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.

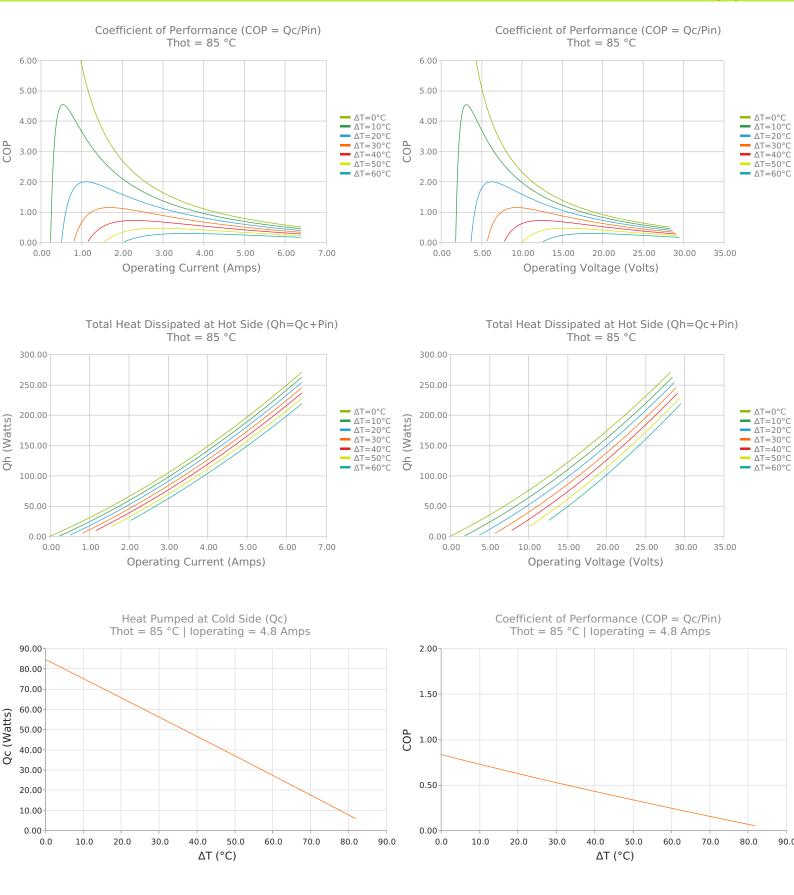


**Operating Current (Amps)** 



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## Specifications

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax (ΔT = 0)	82.2 Watts	90.2 Watts	94.2 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
Imax (Ι @ ΔTmax)	5.8 Amps	5.7 Amps	5.6 Amps
Vmax (V @ ΔTmax)	23.9 Volts	27.5 Volts	29.9 Volts
Module Resistance	3.80 Ohms	4.42 Ohms	4.83 Ohms
Max Operating Temperature	150 °C		
Weight	28.0 gram(s)		

## **Finishing Options**

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	3.810 ±0.051 mm 0.150 ± 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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

## 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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