

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

Note: This product has reached end of production. Please use the recommended replacement.

The recommended replacement is: MFG Part Number: 387009454

Description: OTX19-23-F1N-0608-GG-W2.25

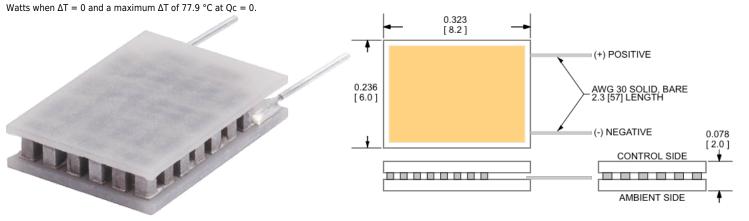
The ET19-23-F1N-0608-GG-W2.25 high temperature thermoelectric cooler uses Laird Thermal Systems' enhanced Thermoelectric Module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 3.1

#### **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

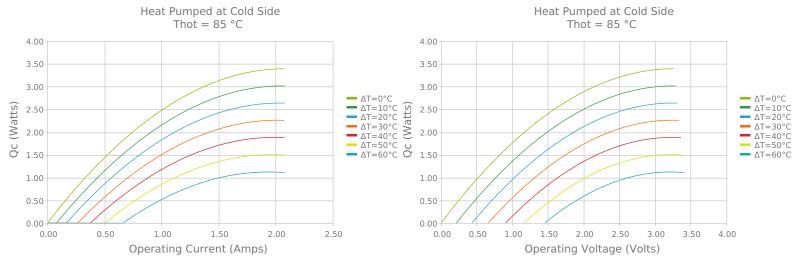


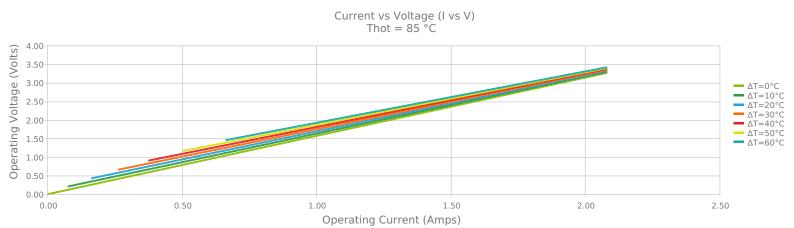
CERAMIC MATERIAL: AIN SOLDER CONSTRUCTION: 232°C, SbSn

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.







1.00

0.50 0.00

0.0

10.0

20.0

30.0

40.0

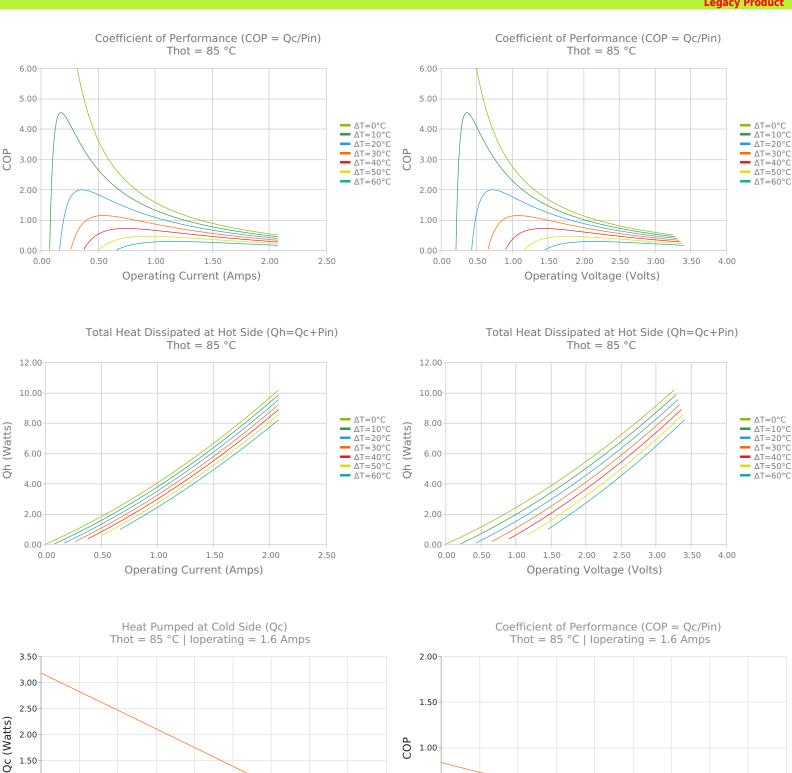
50.0

ΔT (°C)

60.0

70.0

80.0



0.50

0.00

0.0

10.0

20.0

30.0

40.0

50.0

ΔT (°C)

60.0

70.0

80.0

90.0

90.0



### **Specifications**

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax (ΔT = 0)	3.1 Watts	3.4 Watts	3.5 Watts
ΔTmax (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 @ ΔTmax)	2.8 Volts	3.2 Volts	3.5 Volts
Module Resistance	1.35 Ohms	1.57 Ohms	1.72 Ohms
Max Operating Temperature	150 °C		
Weight	1.0 gram(s)		

# Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	$1.981 \pm 0.127 \text{ mm}$ $0.078 \pm 0.0050 \text{ in}$	N/A / N/A	Au Plated	Au Plated	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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