

OptoTEC™ OT Series Thermoelectric Cooler

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

The recommended replacement is: MFG Part Number: 387006838

Description: OTX12-66-F0-1211-GG-W2.25

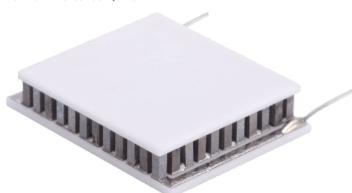
The OT12-66-F0-1211-GG-W2.25 is a miniature thermoelectric cooler. The OT12-66-F0-1211-GG-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 4.9 Watts when $\Delta T=0$ and a maximum ΔT of 68 °C at Oc = 0.

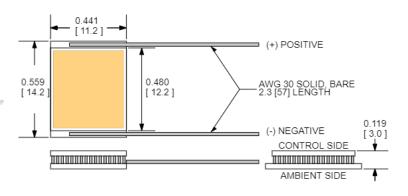
Features

- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- DC operation
- RoHS-compliant

Applications

- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems



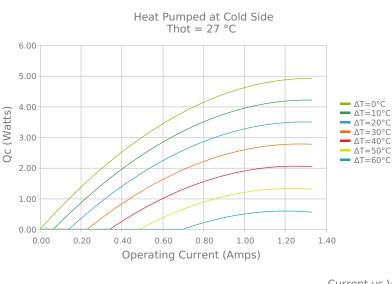


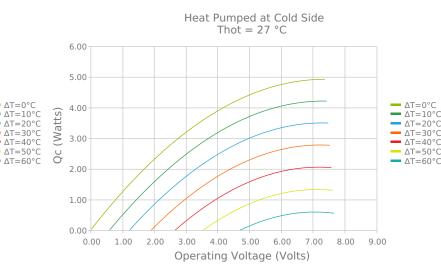
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

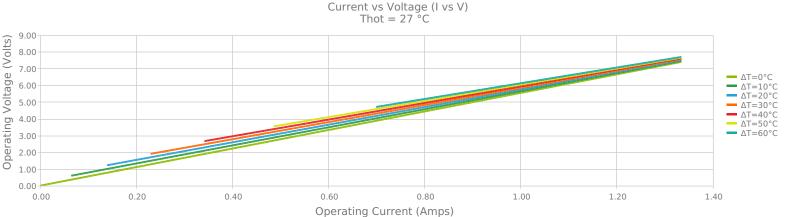
INCHES [MM]

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.



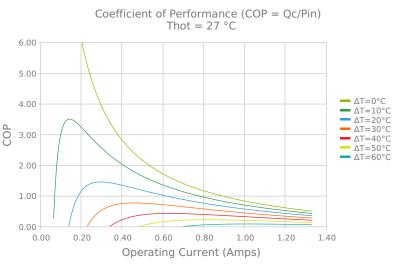




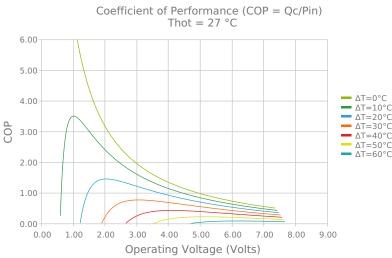


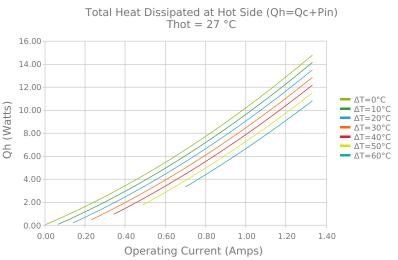
MFG Part Number: 430011-509

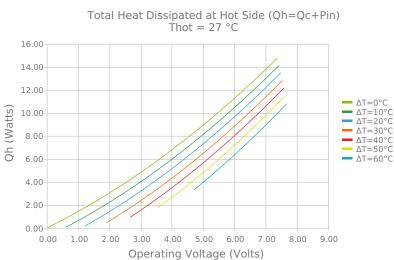
Legacy Product

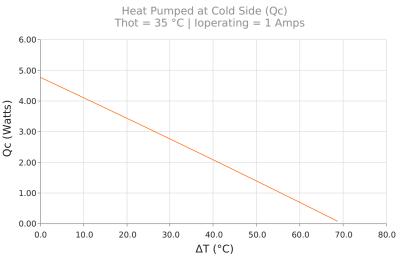


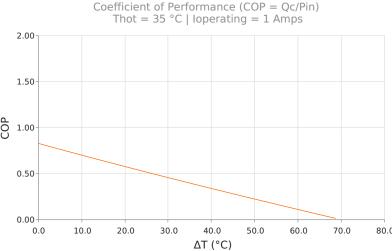
Laird THERMAL SYSTEMS

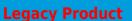














SPECIFICATIONS

Hot Side Temperature

not side reinperature
Qcmax ($\Delta T = 0$)
Δ Tmax (Qc = 0)
Imax (I @ ΔTmax)
Vmax (V @ ΔTmax)
Module Resistance
Max Operating Temperature
Weight

27.0 °C	35.0 °C	50.0 °C
4.9 Watts	5.1 Watts	5.3 Watts
68.0°C	70.9°C	76.0°C
1.2 Amps	1.2 Amps	1.2 Amps
7.0 Volts	7.3 Volts	7.8 Volts
5.54 Ohms	5.77 Ohms	6.20 Ohms
80 °C		
2.0 gram(s)		
2.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	3.023 ±0.127 mm 0.119 ± 0.0050 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

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation
- 4. Solder tinning also available on metallized ceramics

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