OptoTEC[™] OT Series OT15-30-F2A-0610-GG-W2.25 MFG Part Number: 430007-506 Legacy Product

Thermoelectric Cooling for CMOS Sensors

Cooling Solutions for Autonomous Systems

• Heads-Up Displays, Imaging Sensors

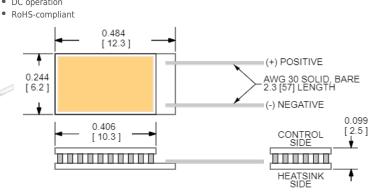
OptoTEC[™] OT Series Thermoelectric Cooler

Note: This product is not recommended for new designs. This product series has been replaced with the OptoTEC™ OTX Series. The recommended replacement is: MFG Part Number: 387006841

Description: OTX15-30-F2A-0610-GG-W2.25

Features

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



Applications

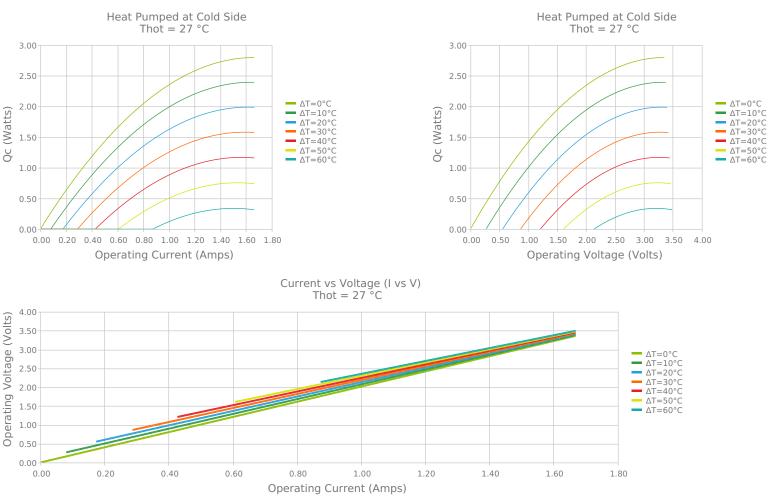
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BISn

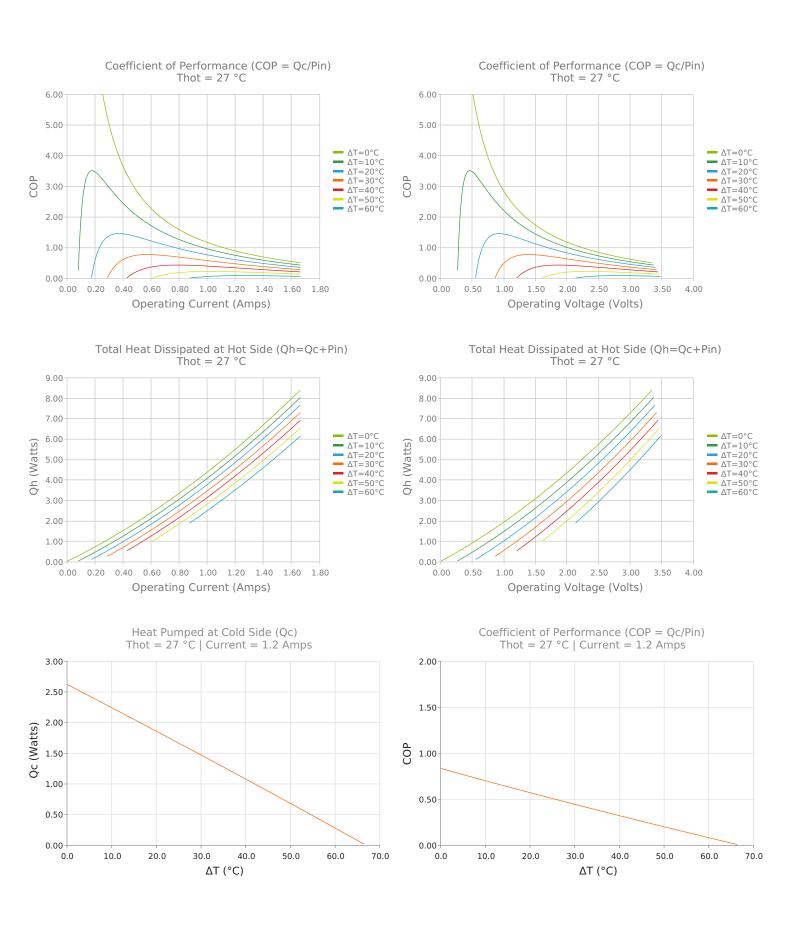
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

MANUAR

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.





SPECIFICATIONS*

| Hot Side Temperature | 27.0 °C | 35.0 °C | 50.0 °C |
|---------------------------|-------------|-----------|-----------|
| $Qcmax (\Delta T = 0)$ | 2.8 Watts | 2.9 Watts | 3.0 Watts |
| ΔTmax (Qc = 0) | 68.0°C | 70.9°C | 76.0°C |
| lmax (I @ ΔTmax) | 1.5 Amps | 1.5 Amps | 1.5 Amps |
| Vmax (V @ ΔTmax) | 3.2 Volts | 3.3 Volts | 3.5 Volts |
| Module Resistance | 2.01 Ohms | 2.10 Ohms | 2.25 Ohms |
| Max Operating Temperature | 80 °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 |
|--------|--------------------------------------|------------------------|-----------|-----------|--------------------|
| GG | 2.515 ±0.127 mm 0.099 ± 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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