# **OptoTEC<sup>™</sup> OT Series OT08-11-F1-0305-GG-W2.25 MFG Part Number: 430834-503** Legacy Product

Thermoelectric Cooling for CMOS Sensors

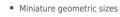
Cooling Solutions for Autonomous Systems

#### OptoTEC<sup>™</sup> OT Series Thermoelectric Cooler

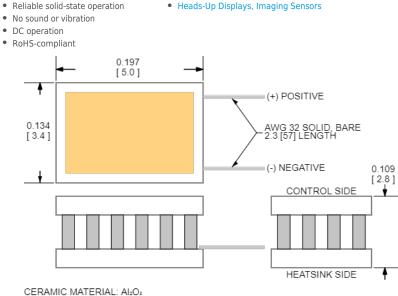
Note: This product is not recommended for new designs. This product series has been replaced with the OptoTEC<sup>™</sup> OTX Series. The recommended replacement is: MFG Part Number: 387006643

Description: OTX08-11-F1-0305-GG-W2.25

#### **Features**



- Precise temperature control
- DC operation



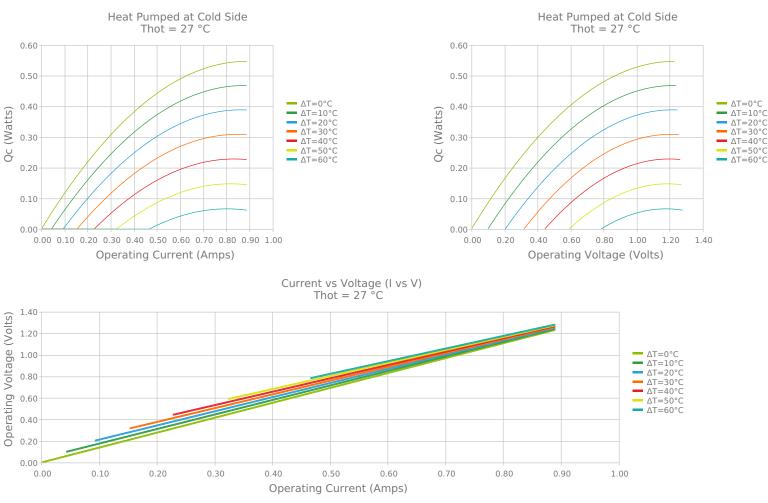
**Applications** 

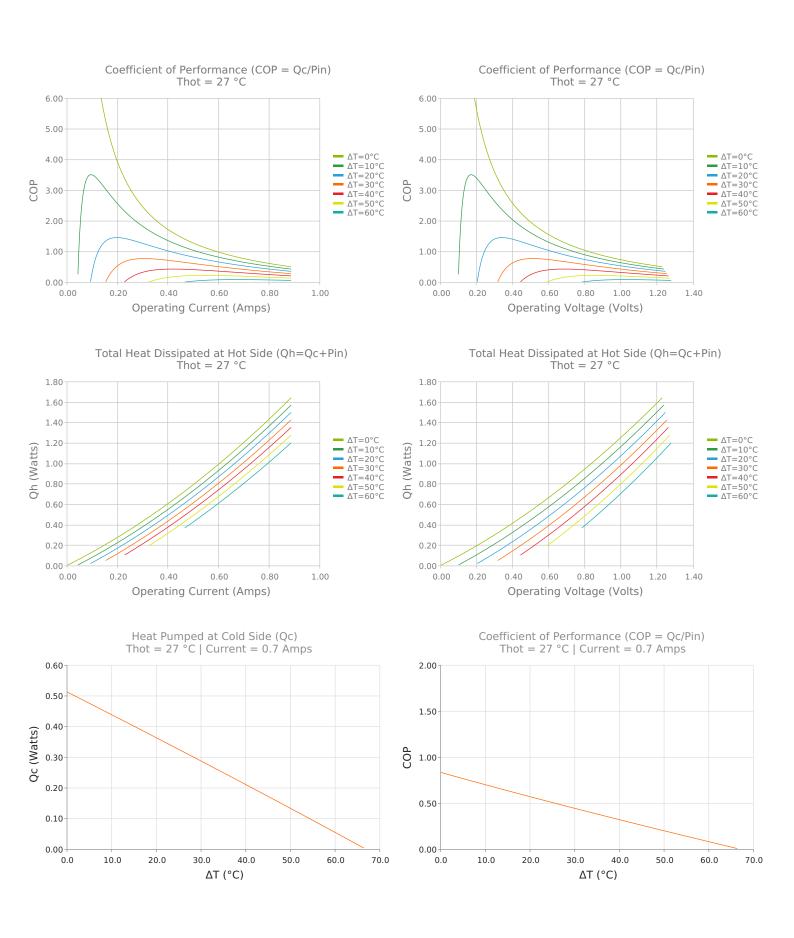
SOLDER CONSTRUCTION: 138°C, BiSn

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 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
$Qcmax (\Delta T = 0)$	0.5 Watts	0.6 Watts	0.6 Watts
ΔTmax (Qc = 0)	68.0°C	70.9°C	76.0°C
lmax (I @ ΔTmax)	0.8 Amps	0.8 Amps	0.8 Amps
Vmax (V @ ΔTmax)	1.2 Volts	1.2 Volts	1.3 Volts
Module Resistance	1.38 Ohms	1.44 Ohms	1.55 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	2.769 ±0.127 mm 0.109 ± 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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