OptoTEC[™] OT Series OT12-18-F2A-0606-GG-W2.25 MFG Part Number: 430779-502 Legacy Product

OptoTEC[™] OT Series Thermoelectric Cooler Note: This product is not recommended for new designs.

Description: OTX12-18-F2A-0606-GG-W2.25

The recommended replacement is:

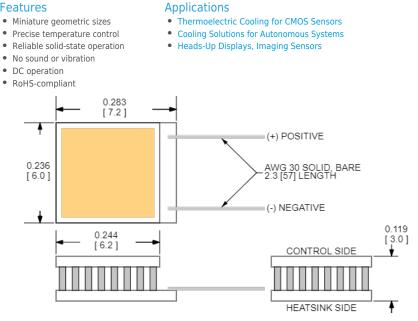
MFG Part Number: 387006656

This product series has been replaced with the OptoTEC™ OTX Series.

Features

- Miniature geometric sizes

- RoHS-compliant



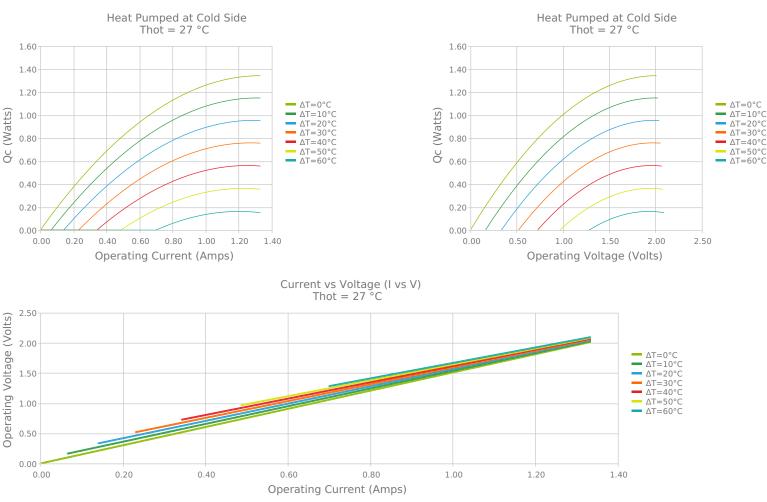
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BISn

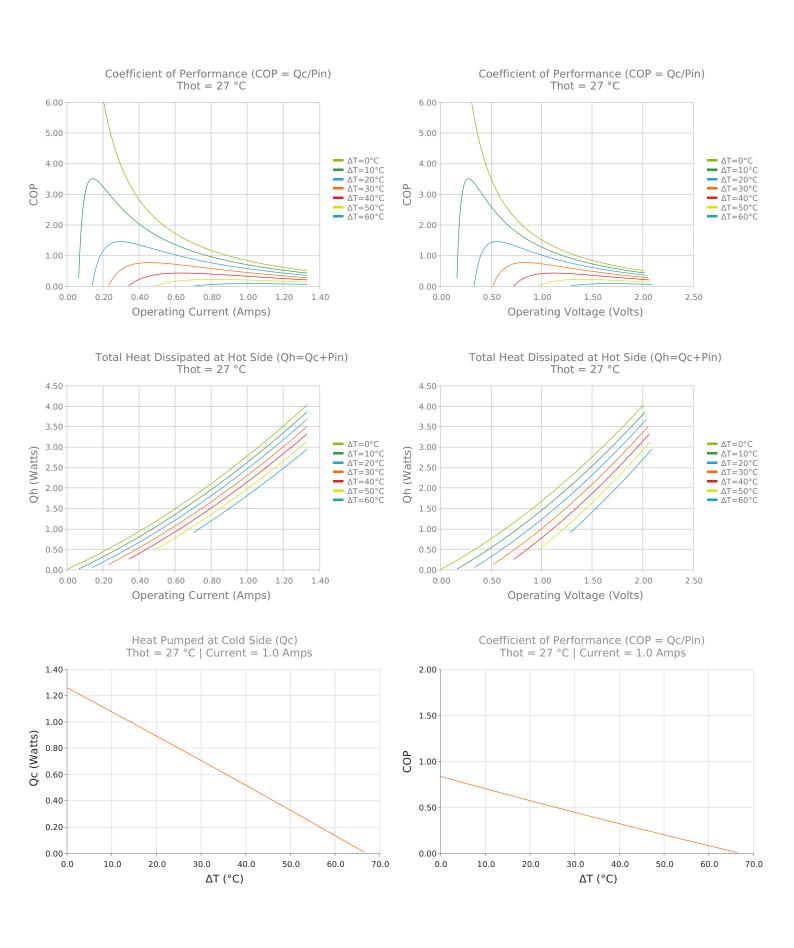
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

III

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
$Qcmax (\Delta T = 0)$	1.3 Watts	1.4 Watts	1.5 Watts
ΔTmax (Qc = 0)	68.0°C	70.9°C	76.0°C
lmax (I @ ΔTmax)	1.2 Amps	1.2 Amps	1.2 Amps
Vmax (V @ ΔTmax)	1.9 Volts	2.0 Volts	2.1 Volts
Module Resistance	1.51 Ohms	1.57 Ohms	1.69 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	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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