

OptoTEC[™] OT Series OT08-11-F1-0305-TB-W2.25 MFG Part Number: 430834-502 Legacy Product

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: 387006790

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

The OT08-11-F1-0305-TB-W2.25 is a miniature thermoelectric cooler. The OT08-11-F1-0305-TB-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 0.5 Watts when $\Delta T = 0$ and a

maximum ΔT of 68 °C at Qc = 0.



Features

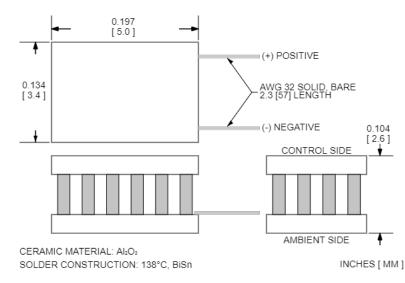
- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operationNo sound or vibration

DC operation

RoHS-compliant

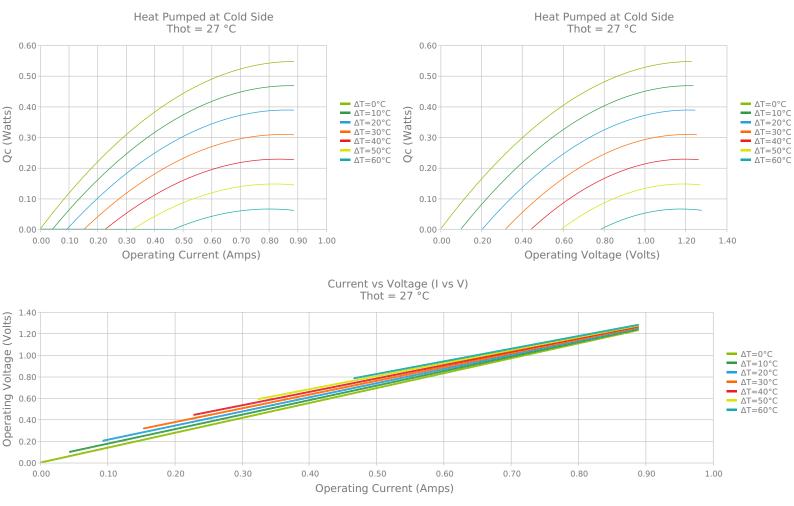
Applications

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



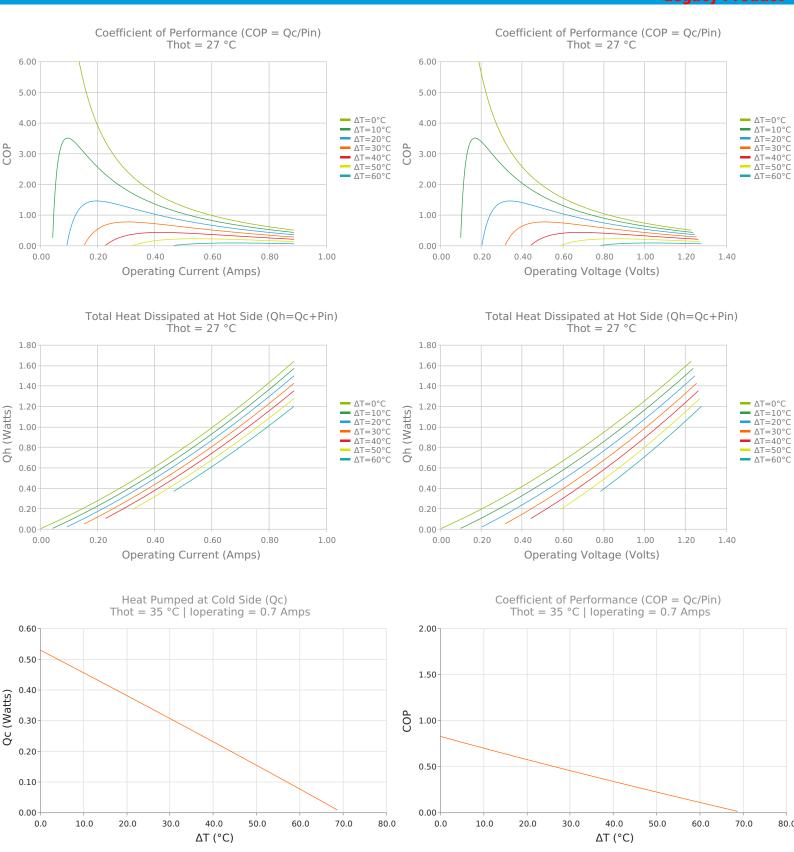
ELECTRICAL AND THERMAL PERFORMANCE

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.





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SPECIFICATIONS

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax (ΔT = 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)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	allelism Hot Face		Lead Length	
ТВ	2.640 ±0.013 mm 0.104 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 in	Lapped	Lapped	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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