

OptoTEC™ OT Series Thermoelectric Cooler

The OT08-32-F0-0707-11-W2.25 is a miniature thermoelectric cooler. The OT08-32-F0-0707-11-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 1.6 Watts when $\Delta T=0$ and a maximum ΔT of 68 °C at Qc = 0.

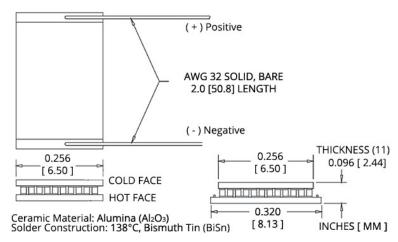
Features

- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

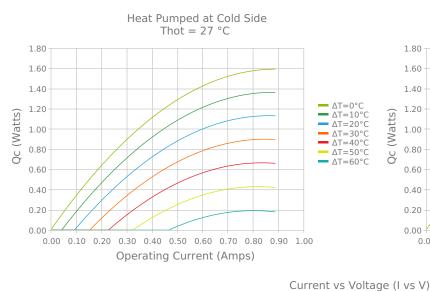
Applications

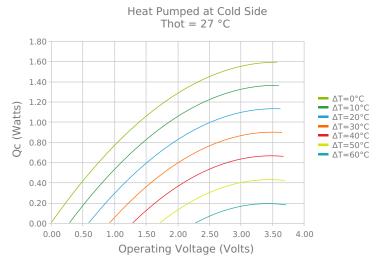
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Heads-Up Displays, Imaging Sensors

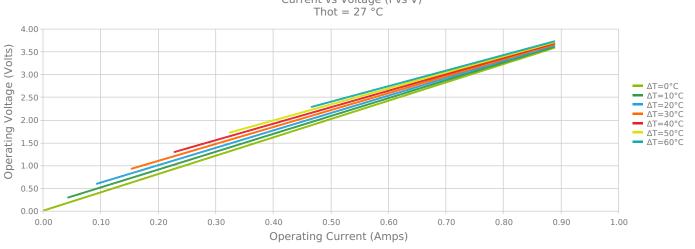




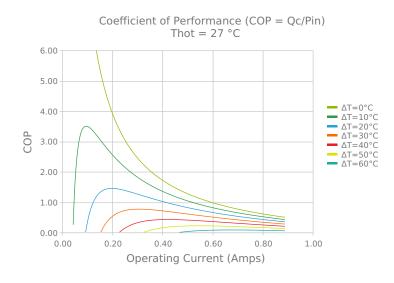
ELECTRICAL AND THERMAL PERFORMANCE

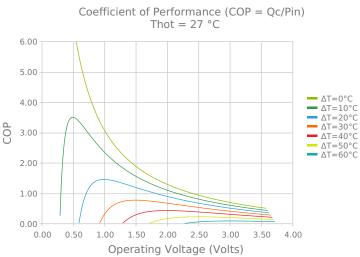


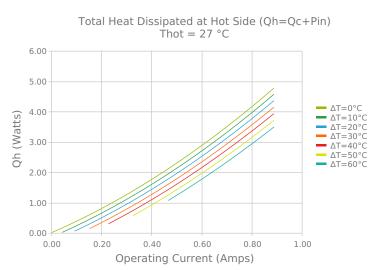


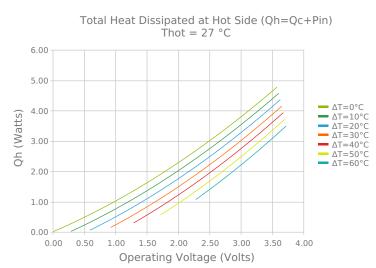


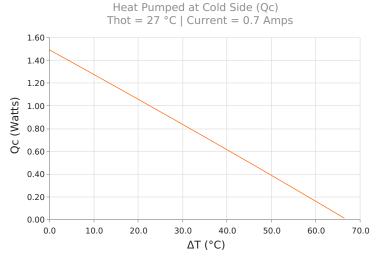


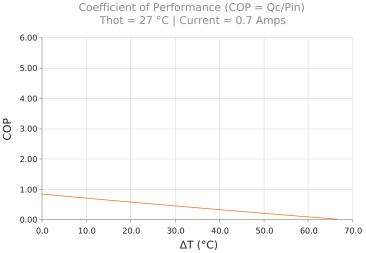














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
1.6 Watts	1.6 Watts	1.7 Watts
68.0°C	70.9°C	76.0°C
0.8 Amps	0.8 Amps	0.8 Amps
3.4 Volts	3.5 Volts	3.8 Volts
4.03 Ohms	4.19 Ohms	4.51 Ohms
80 °C		
1.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
11	2.438 ±0.051 mm 0.096 ± 0.002 in	0.051 mm / 0.051 mm 0.002 in / 0.002 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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^{*} Specifications reflect thermoelectric coefficients updated March 2020