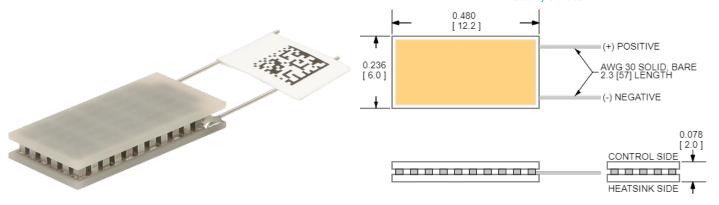


OptoTEC™ OTX Series Thermoelectric Cooler

The OTX19-35-F1N-0612-GG-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX19-35-F1N-0612-GG-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 4.7 Watts when $\Delta T=0$ and a maximum ΔT of 72.9 °C at Qc = 0.

Features

- Miniature footprint
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationRoHS-compliant
- Optical Transceivers
- ApplicationsLaser Diodes
 - Lidar Sensors
 - Infrared Range (IR) Sensors
 - CMOS Sensors
 - Autonomous SystemsMachine Vision
 - Security Cameras

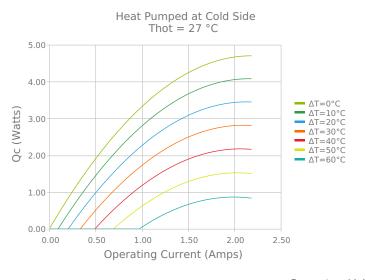


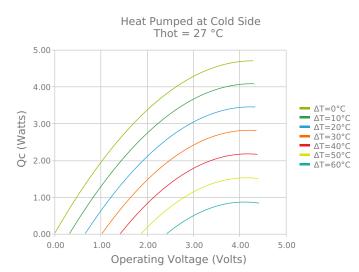
CERAMIC MATERIAL: AIN SOLDER CONSTRUCTION: 232°C, SbSn

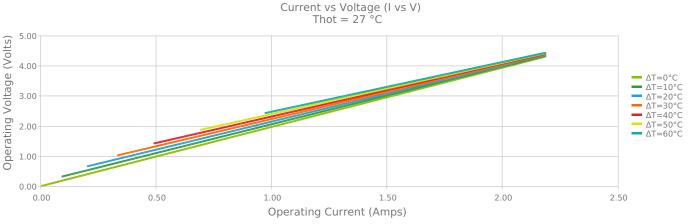
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

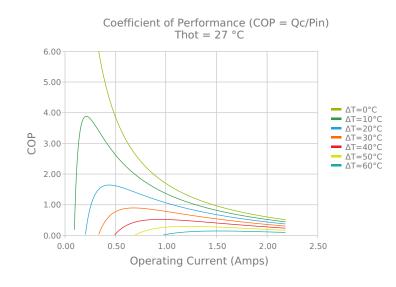
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.

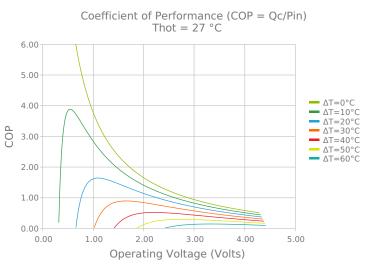


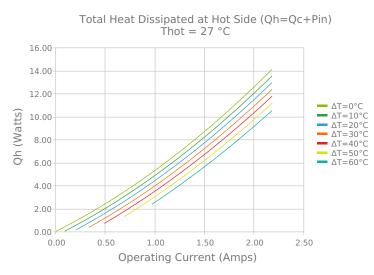


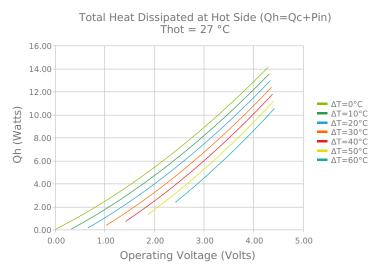


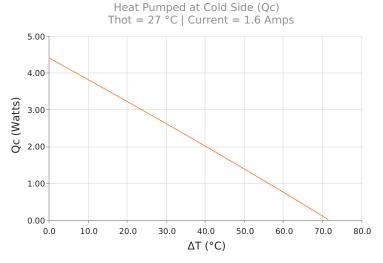


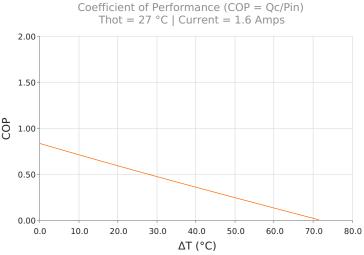














SPECIFICATIONS*

Hat Sida Tamparatura

not side Temperature
Qcmax ($\Delta T = 0$)
$\Delta T max (Qc = 0)$
lmax (I @ ΔTmax)
Vmax (V @ Δ Tmax)
Module Resistance

* Specifications	reflect t	thermoelectric	coefficients	updated	March	2020

27.0 °C	50.0 °C	80.0 °C
4.7 Watts	5.1 Watts	5.4 Watts
72.9°C	81.8°C	92.1°C
1.9 Amps	1.9 Amps	1.8 Amps
4.1 Volts	4.5 Volts	5.1 Volts
1.97 Ohms	2.21 Ohms	2.53 Ohms
120 °C		
1.0 gram(s)		

FINISHING OPTIONS

Weight

Max Operating Temperature

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	1.981 ±0.127 mm 0.078 ± 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: 120°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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