

**OptoTEC™ OTX Series Thermoelectric Cooler**

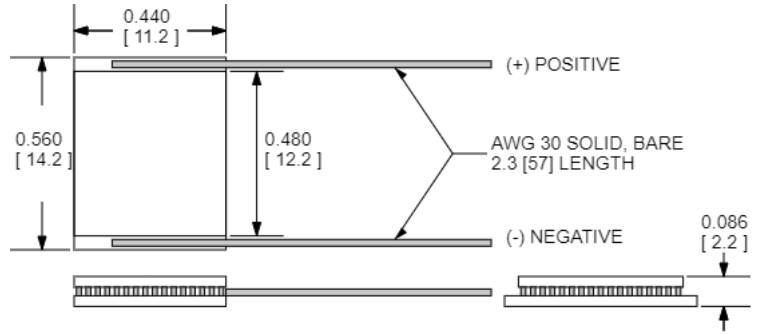
The OTX20-66-F0-1211-11-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX20-66-F0-1211-11-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum  $Q_c$  of 9.2 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 72.9 °C at  $Q_c = 0$ .

**Features**

- Miniature footprint
- Precise temperature control
- Reliable solid-state operation
- No sound or vibration
- RoHS-compliant

**Applications**

- Laser Diodes
- Optical Transceivers
- Lidar Sensors
- Infrared Range (IR) Sensors
- CMOS Sensors
- Autonomous Systems
- Machine Vision
- Security Cameras

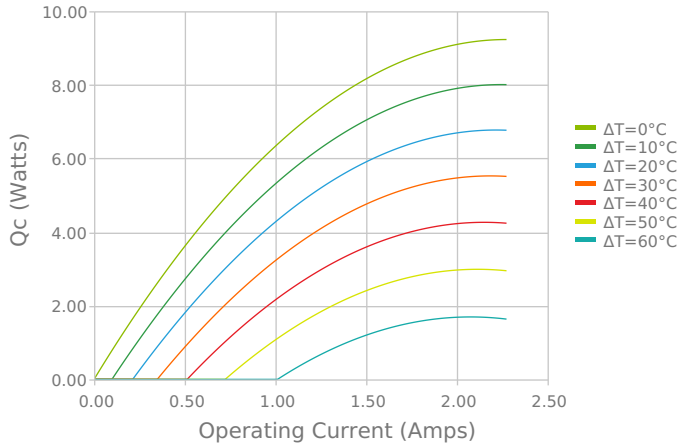


CERAMIC MATERIAL: Al<sub>2</sub>O<sub>3</sub>  
 SOLDER CONSTRUCTION: 232°C, SbSn

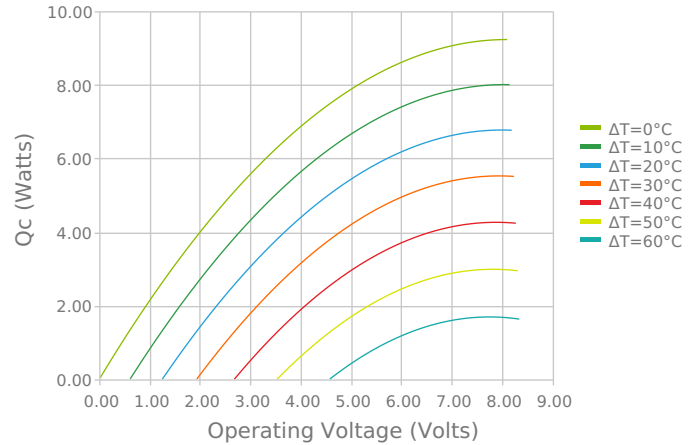
INCHES [MM]

**ELECTRICAL AND THERMAL PERFORMANCE**

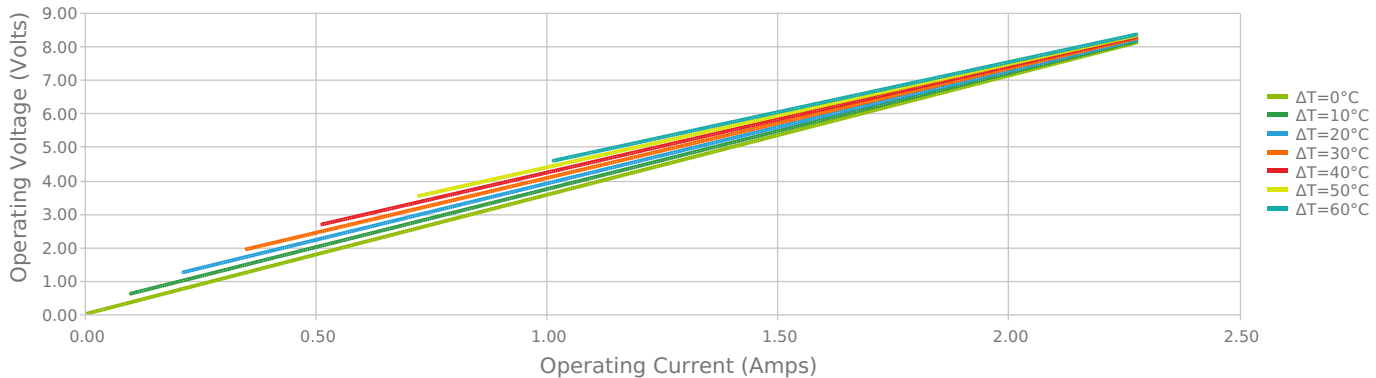
Heat Pumped at Cold Side  
 $T_{hot} = 27\text{ °C}$



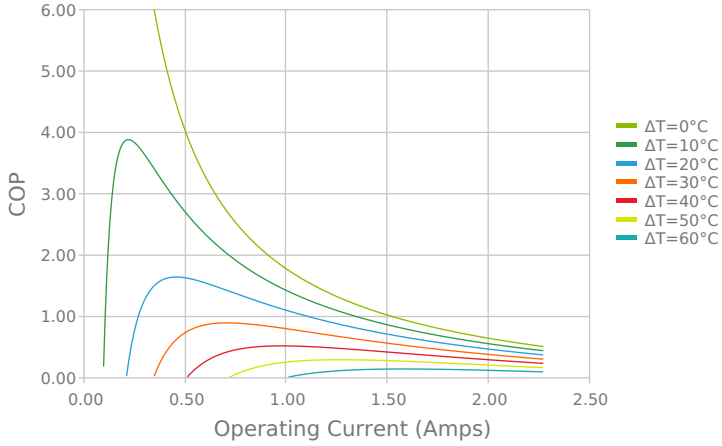
Heat Pumped at Cold Side  
 $T_{hot} = 27\text{ °C}$



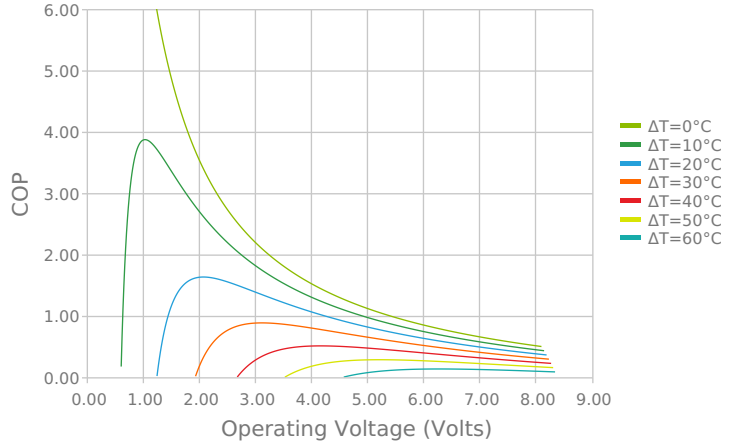
Current vs Voltage (I vs V)  
 $T_{hot} = 27\text{ °C}$



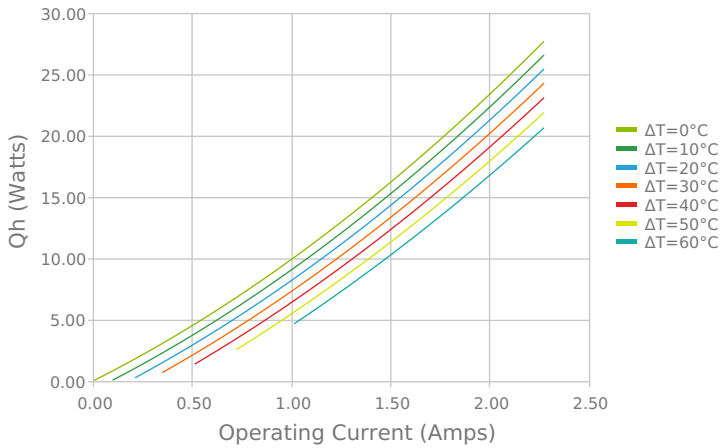
Coefficient of Performance (COP = Qc/Pin)  
 Thot = 27 °C



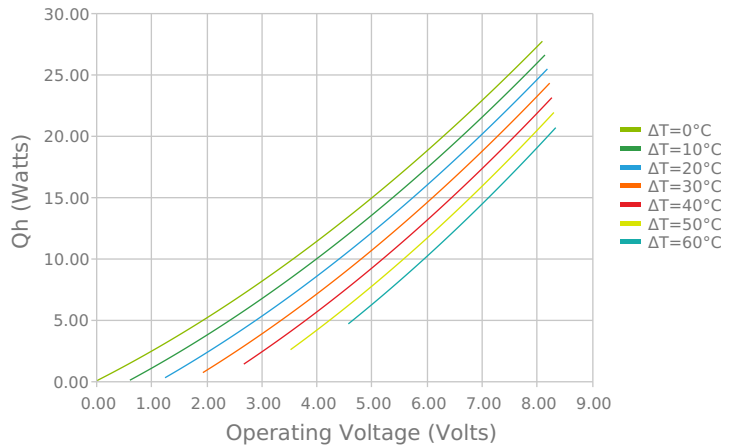
Coefficient of Performance (COP = Qc/Pin)  
 Thot = 27 °C



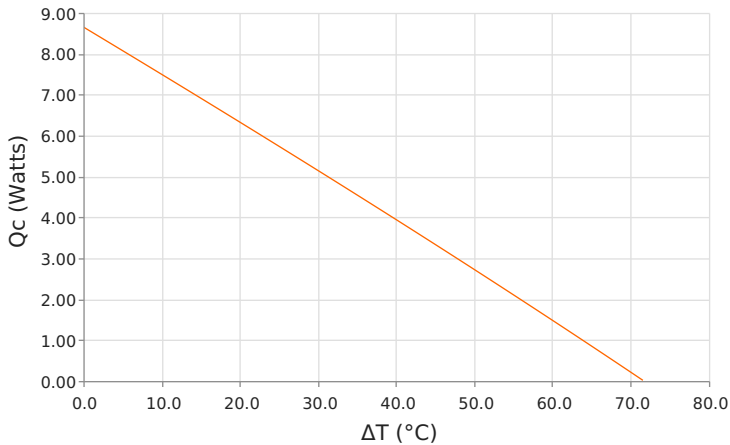
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)  
 Thot = 27 °C



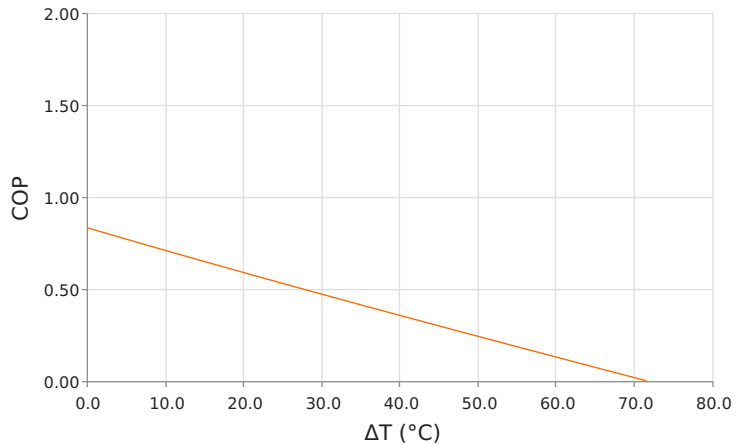
Total Heat Dissipated at Hot Side (Qh=Qc+Pin)  
 Thot = 27 °C



Heat Pumped at Cold Side (Qc)  
 Thot = 27 °C | Current = 1.7 Amps



Coefficient of Performance (COP = Qc/Pin)  
 Thot = 27 °C | Current = 1.7 Amps



## SPECIFICATIONS\*

Hot Side Temperature	27.0 °C	50.0 °C	80.0 °C
<b>Qcmax (<math>\Delta T = 0</math>)</b>	9.2 Watts	9.9 Watts	10.7 Watts
<b><math>\Delta T_{max}</math> (<math>Q_c = 0</math>)</b>	72.9°C	81.8°C	92.1°C
<b>I<sub>max</sub> (I @ <math>\Delta T_{max}</math>)</b>	2.0 Amps	2.0 Amps	1.9 Amps
<b>V<sub>max</sub> (V @ <math>\Delta T_{max}</math>)</b>	7.7 Volts	8.5 Volts	9.6 Volts
<b>Module Resistance</b>	3.56 Ohms	4.01 Ohms	4.58 Ohms
<b>Max Operating Temperature</b>	120 °C		
<b>Weight</b>	2.0 gram(s)		

\* Specifications reflect thermoelectric coefficients updated March 2020

## FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	2.184 ±0.127 mm 0.086 ± 0.0050 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: 120°C
2. Do not exceed I<sub>max</sub> or V<sub>max</sub> when operating module
3. Reference assembly guidelines for recommended installation
4. Solder tinning also available on metallized ceramics

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Date: 12/15/2021

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