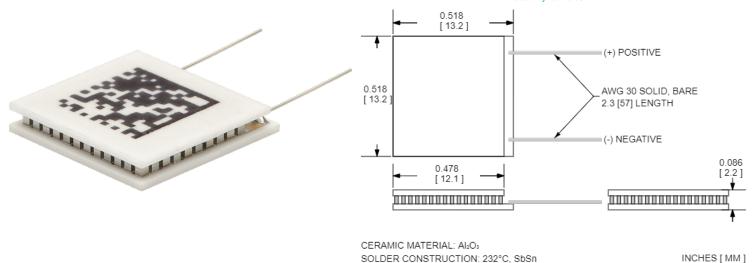


#### OptoTEC™ OTX Series Thermoelectric Cooler

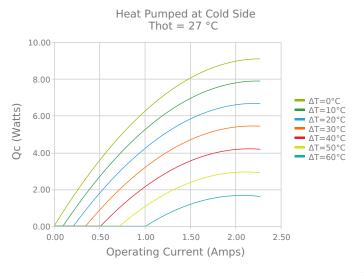
The OTX20-65-F2A-1312-11-W2.25 is a high-performance, miniature thermoelectric cooler. The OTX20-65-F2A-1312-11-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 9.1 Watts when  $\Delta T=0$  and a maximum  $\Delta T$  of 72.9 °C at Qc = 0.

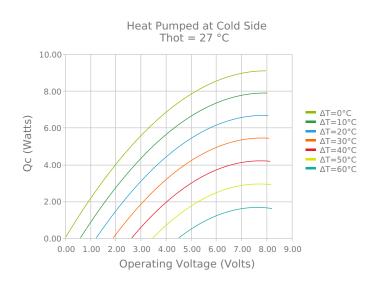
#### **Features**

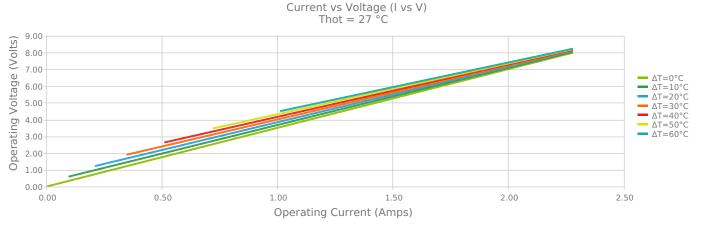
- Miniature footprint
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationRoHS-compliant
- Optical Transceivers
- ApplicationsLaser Diodes
  - Lidar Sensors
  - Infrared Range (IR) Sensors
  - CMOS SensorsAutonomous Systems
  - Machine Vision
  - Security Cameras



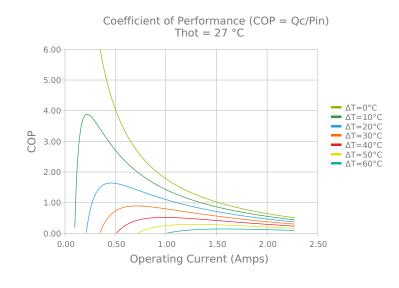
## **ELECTRICAL AND THERMAL PERFORMANCE**

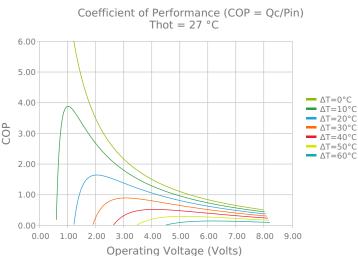


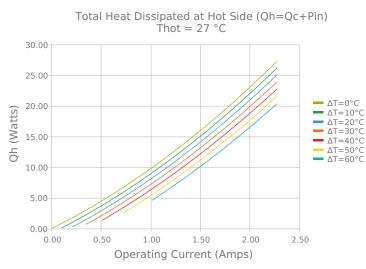


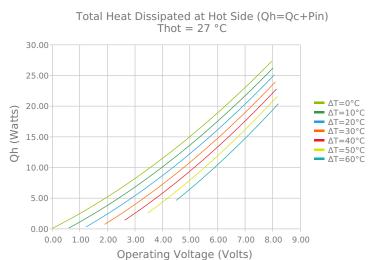


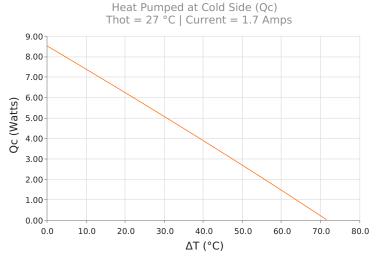


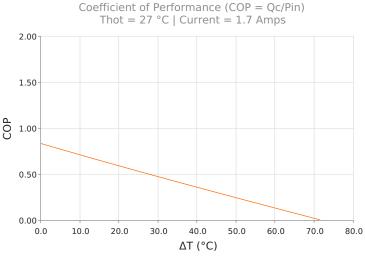














## **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ ATmax)

Vmax (V @  $\Delta$ Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

27.0 °C	50.0 °C	80.0 °C
9.1 Watts	9.8 Watts	10.5 Watts
72.9°C	81.8°C	92.1°C
2.0 Amps	2.0 Amps	1.9 Amps
7.6 Volts	8.4 Volts	9.5 Volts
3.51 Ohms	3.95 Ohms	4.51 Ohms
120 °C		
2.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>
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 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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Date: 12/15/2021

<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020

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