

### OptoTEC™ OT Series Thermoelectric Cooler

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  $\Delta T$  of 68 °C at Qc = 0.

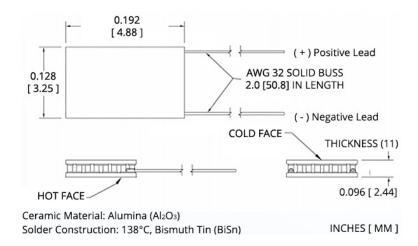
### **Features**

- Miniature geometric sizes
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationDC operation
- RoHS-compliant

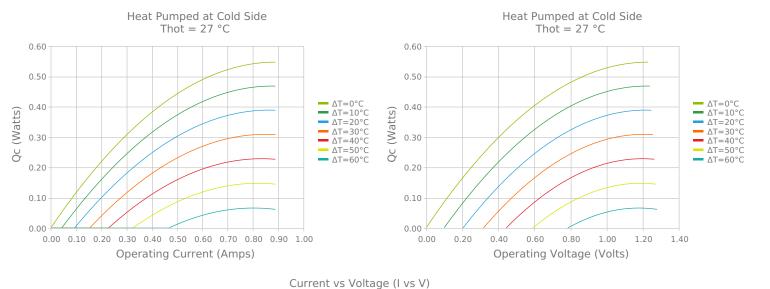
#### **Applications**

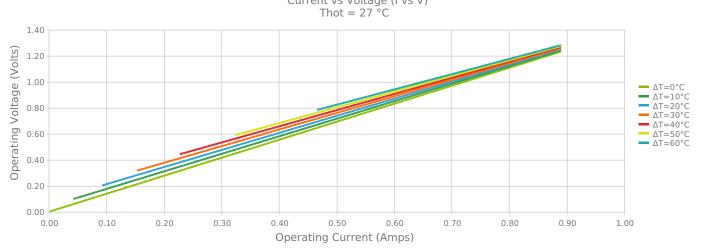
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Heads-Up Displays, Imaging Sensors



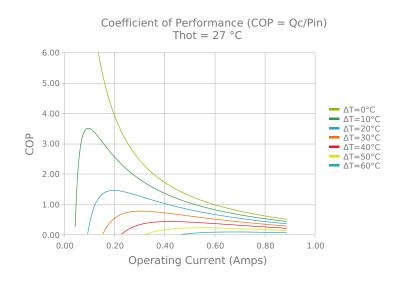


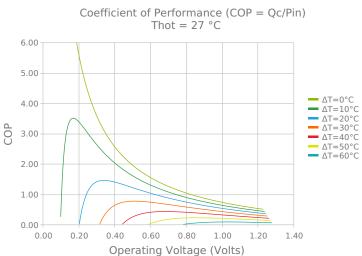
### **ELECTRICAL AND THERMAL PERFORMANCE**

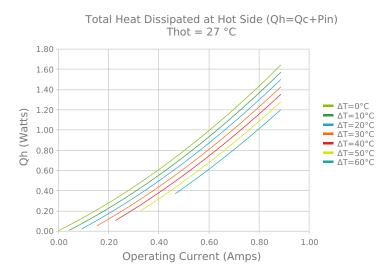


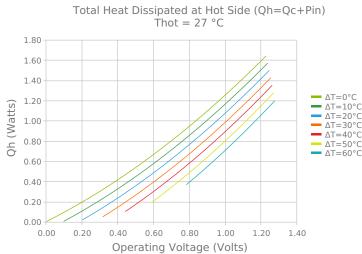


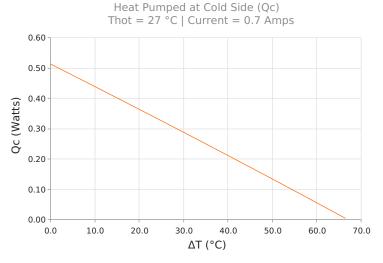


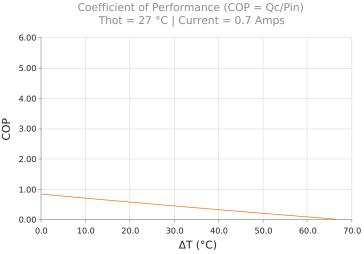














# **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darkstrum \

Vmax (V @ \Darmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

27.0 °C	35.0 °C	50.0 °C
0.5 Watts	0.6 Watts	0.6 Watts
68.0°C	70.9°C	76.0°C
0.8 Amps	0.8 Amps	0.8 Amps
1.2 Volts	1.2 Volts	1.3 Volts
1.38 Ohms	1.44 Ohms	1.55 Ohms
80 °C		
1.0 gram(s)		

## **FINISHING OPTIONS**

Suffix Thickness Flatness / Para		Flatness / Parallelism	ism Hot Face Cold Face		<b>Lead Length</b>	
ТВ	2.438 ±0.013 mm 0.096 ± 0.001 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	<b>Temp Range</b>	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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<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020