

#### **ZT Series Thermoelectric Cooler Features Applications** • High temperature differential Peltier Cooling for Refrigerated Centrifuges Note: This product is not recommended for new designs. • Peltier Cooling for Machine Vision • Precise temperature control This product series has been replaced with the HiTemp ETX Series. • Reliable solid-state operation • Thermoelectric Cooling for CMOS Sensors The recommended replacement is: No sound or vibration • Cooling Solutions for Autonomous Systems Description: ETX6-7-F1-3030-TA-W8 DC operation • Peltier Cooling for Digital Light Processors RoHS-compliant 1.181 [ 30.0 ] (+) POSITIVE 1 181 WG 22 PVC STRANDED .0 [203] LENGTH [ 30.0 (-) NEGATIVE 0.154 [3.9] CONTROL SIDE

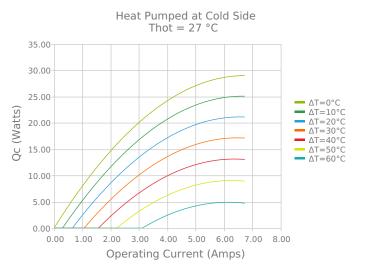
CERAMIC MATERIAL: Al<sub>2</sub>O<sub>3</sub>
SOLDER CONSTRUCTION: 138°C, BiSn

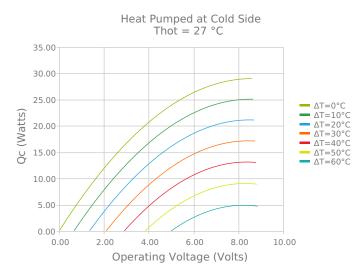
INCHES [ MM ]

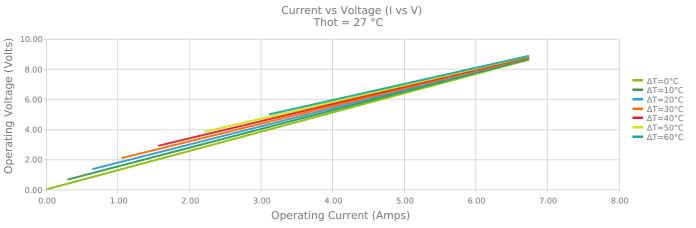
HEATSINK SIDE

# **ELECTRICAL AND THERMAL PERFORMANCE**

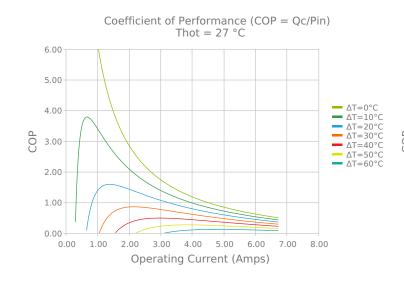
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

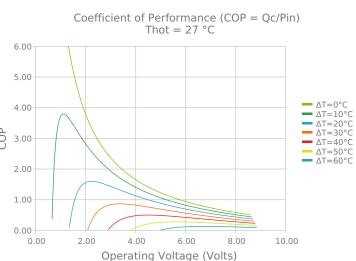


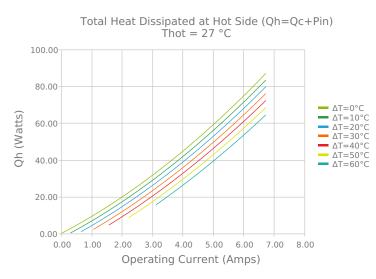


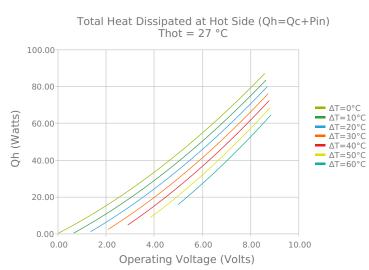


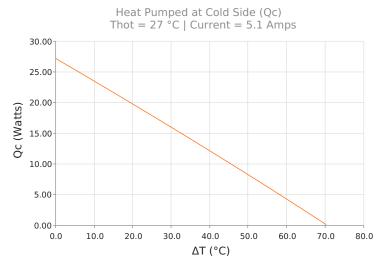


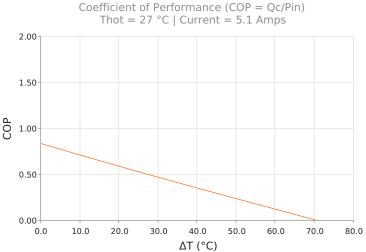














## **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darmax)

Vmax (V @  $\Delta$ Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

27.0 °C	35.0 °C	50.0 °C
29.0 Watts	29.8 Watts	31.2 Watts
71.7°C	74.8°C	80.4°C
6.0 Amps	6.0 Amps	5.9 Amps
8.1 Volts	8.5 Volts	9.0 Volts
1.28 Ohms	1.33 Ohms	1.44 Ohms
80 °C		
13.0 gram(s)		

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	<b>Cold Face</b>	<b>Lead Length</b>
TA	3.910 ±0.025 mm 0.154 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	203.2 mm 8.00 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

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