INCHES [ MM ]

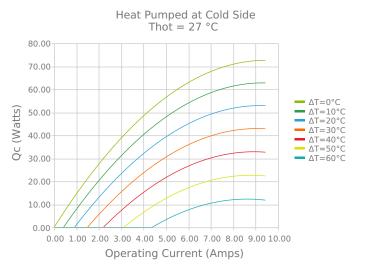


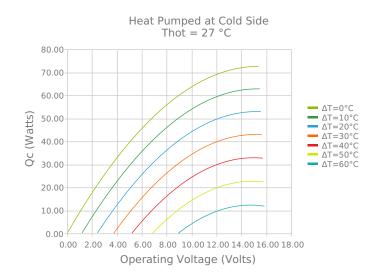
#### **ZT Series Thermoelectric Cooler Features Applications** • High temperature differential Peltier Cooling for Refrigerated Centrifuges Note: This product is not recommended for new designs. • Precise temperature control • Peltier Cooling for Machine Vision This product series has been replaced with 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 MFG Part Number: 387006453 DC operation • Peltier Cooling for Digital Description: ETX8-12-F1-4040-TA-W6 Light Processors RoHS-compliant 1.575 [ 40.0 ] (+) POSITIVE 1 575 AWG 20 PVC STRANDED [ 40.0 8.0 [203] LENGTH (-) NEGATIVE 0.150 [3.8]

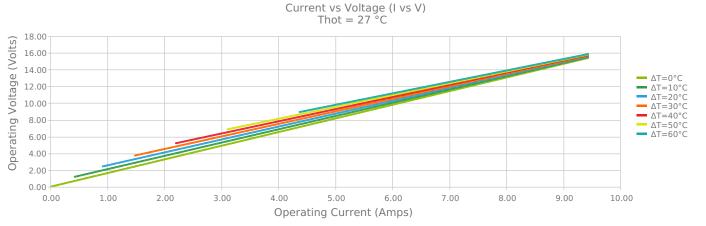
CERAMIC MATERIAL: Al2O3

SOLDER CONSTRUCTION: 138°C, BiSn

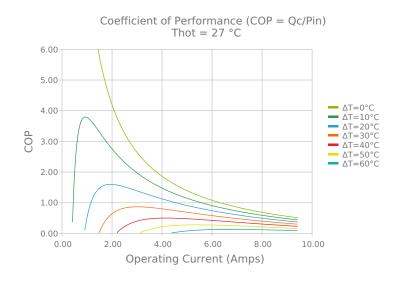
# **ELECTRICAL AND THERMAL PERFORMANCE**

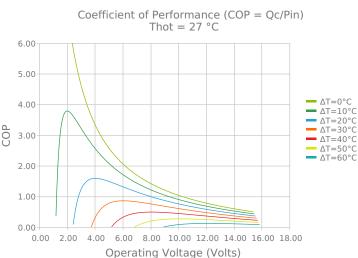


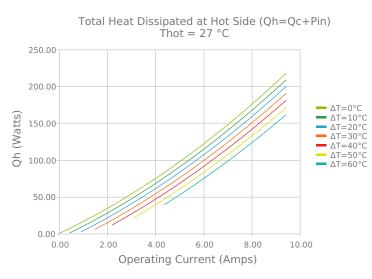


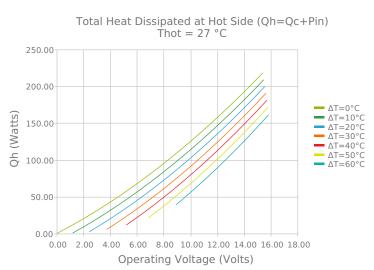


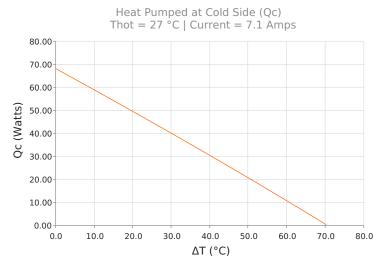


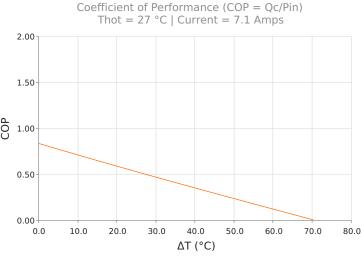














### **SPECIFICATIONS\***

**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
72.6 Watts	74.6 Watts	78.1 Watts
71.7°C	74.8°C	80.4°C
8.4 Amps	8.3 Amps	8.2 Amps
14.6 Volts	15.1 Volts	16.2 Volts
1.63 Ohms	1.70 Ohms	1.84 Ohms
80 °C		
26.0 gram(s)		

# **FINISHING OPTIONS**

Suffix 7		Thickness	Flatness / Parallelism	<b>Hot Face</b>	Cold Face	<b>Lead Length</b>	
T	A	$3.810 \pm 0.025 \text{ mm}$ $0.150 \pm 0.0010 \text{ in}$	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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Date: 01/08/2022

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