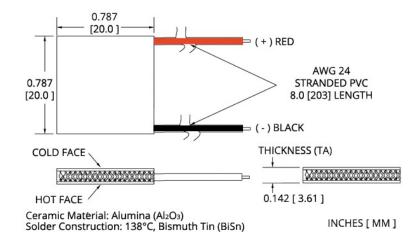
#### ZT Series Thermoelectric Cooler

The ZT4-7-F1-2020-TA-W8 is a high performance thermoelectric cooler that achieves a higher temperature differential than standard single stage thermoelectric coolers. It has a maximum Qc of 18.6 Watts when  $\Delta T=0$  and a maximum  $\Delta T$  of 71.7 °C at Qc = 0.

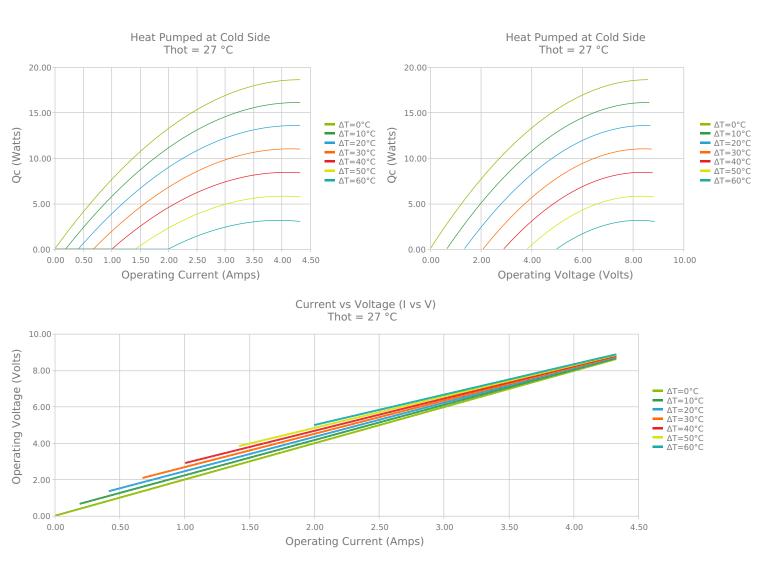
#### Features

- High temperature differential
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationDC operation
- DC operation
  RoHS-compliant
- **Applications**
- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous SystemsPeltier Cooling for Digital
- Light Processors

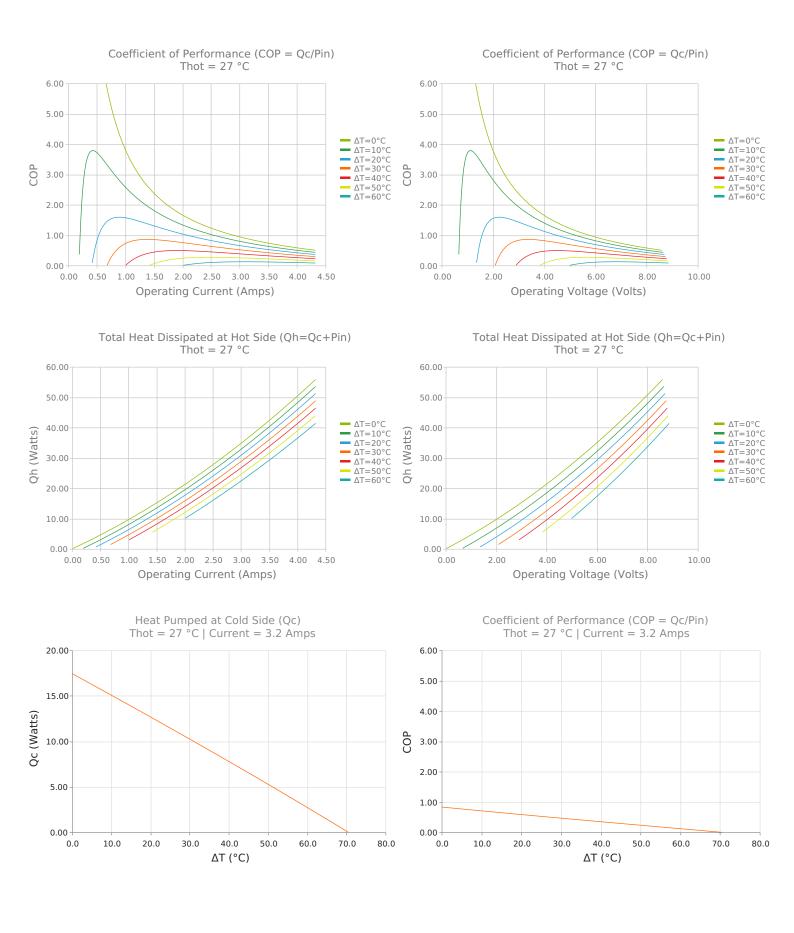
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## **ELECTRICAL AND THERMAL PERFORMANCE**







### **SPECIFICATIONS\***

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	18.6 Watts	19.1 Watts	20.0 Watts
ΔTmax (Qc = 0)	71.7°C	74.8°C	80.4°C
lmax (I @ ΔTmax)	3.9 Amps	3.8 Amps	3.8 Amps
Vmax (V @ ΔTmax)	8.1 Volts	8.5 Volts	9.0 Volts
Module Resistance	1.99 Ohms	2.08 Ohms	2.24 Ohms
Max Operating Temperature	80 °C		
Weight	7.0 gram(s)		

\* Specifications reflect thermoelectric coefficients updated March 2020

## **FINISHING OPTIONS**

Suffix	fix Thickness Flatness / Parallelism		Hot Face	Cold Face	Lead Length
ТА	$3.610 \pm 0.025 \text{ mm}$ $0.142 \pm 0.001 \text{ in}$	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	Temp Range	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: 04/24/2020