

ZT Series Thermoelectric Cooler

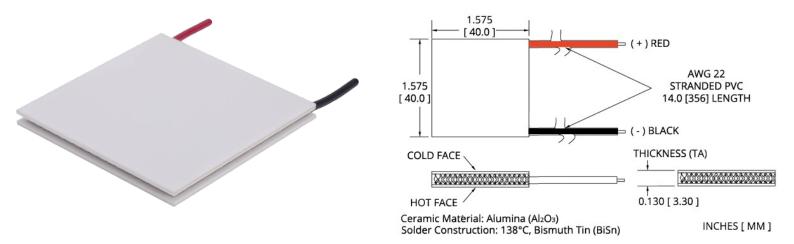
The ZT7-16-F1-4040-TA-W8 is a high performance thermoelectric cooler that achieves a higher temperature differential than standard single stage thermoelectric coolers. It has a maximum Qc of 72.9 Watts when $\Delta T=0$ and a maximum ΔT of 71.7 °C at Qc = 0.

Features

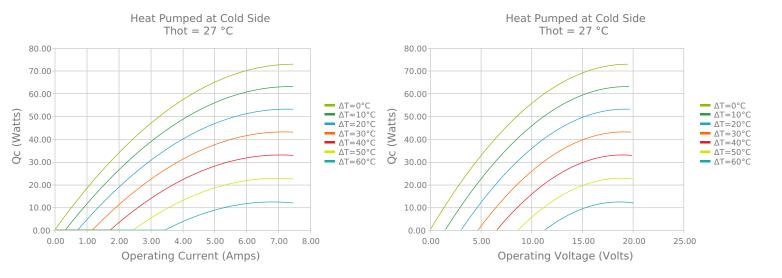
- High temperature differential
- Precise temperature control
- Reliable solid-state operationNo sound or vibration
- DC operation
- RoHS-compliant

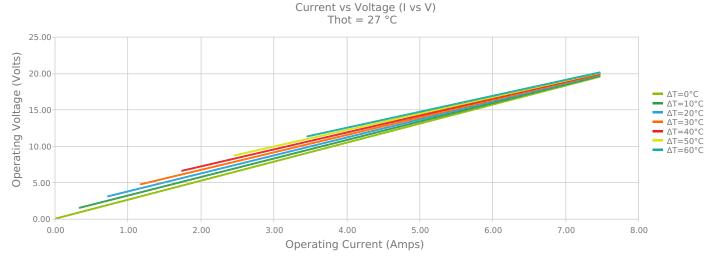
Applications

- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous Systems
- Peltier Cooling for Digital
- Light Processors

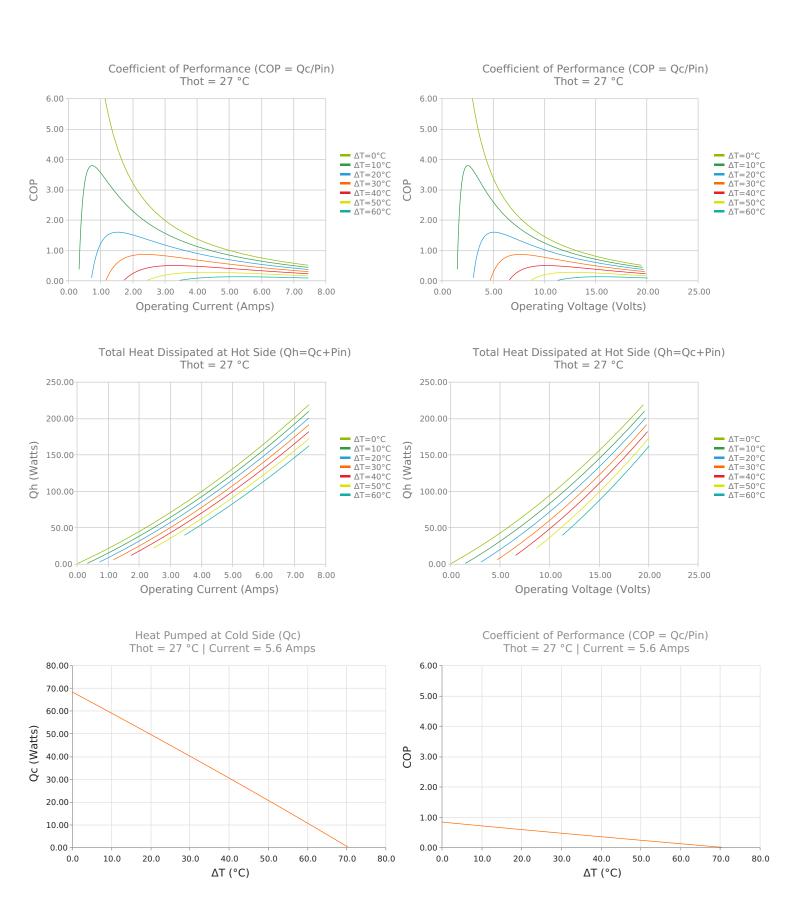


ELECTRICAL AND THERMAL PERFORMANCE











SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
72.9 Watts	74.9 Watts	78.4 Watts
71.7°C	74.8°C	80.4°C
6.7 Amps	6.6 Amps	6.5 Amps
18.5 Volts	19.2 Volts	20.5 Volts
2.61 Ohms	2.73 Ohms	2.94 Ohms
80 °C		
19.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
TA	$3.300 \pm 0.025 \text{ mm}$ $0.130 \pm 0.001 \text{ in}$	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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^{*} Specifications reflect thermoelectric coefficients updated March 2020