

Multistage MS Series Thermoelectric Cooler

The MS3-070-20-25-00-W8 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 3 Watts when $\Delta T=0$ and a maximum ΔT of 122 °C at Qc = 0.

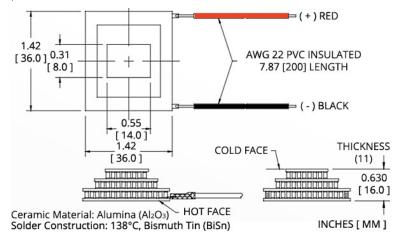
Features

- High temperature differential
- Precise temperature control
- Reliable solid-state operationEnvironmentally-friendly
- DC operation
- RoHS-compliant

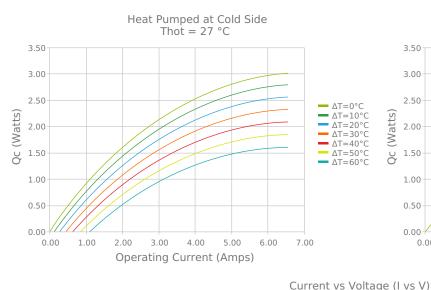
Applications

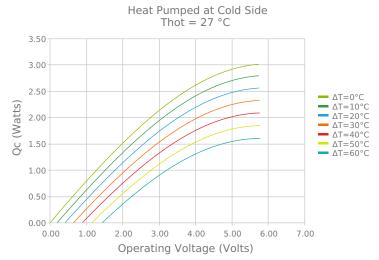
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors

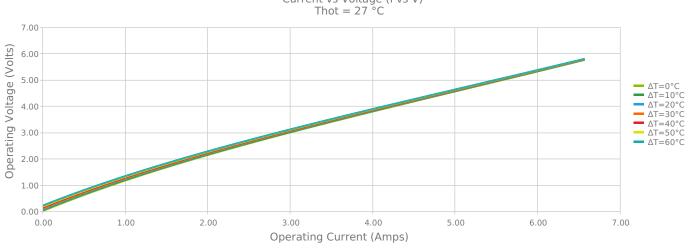




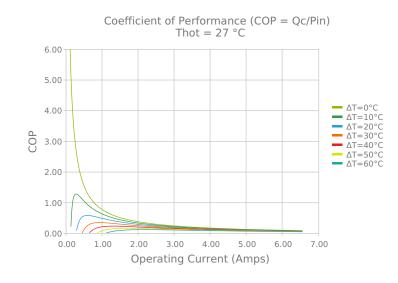
ELECTRICAL AND THERMAL PERFORMANCE

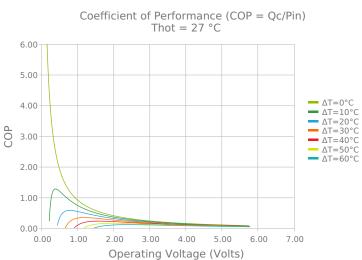


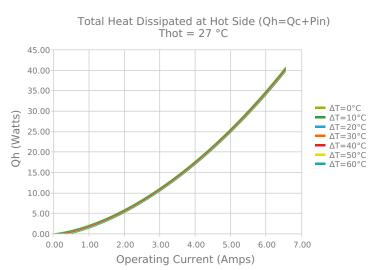


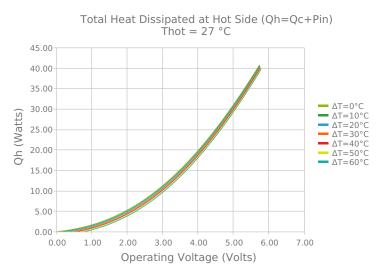


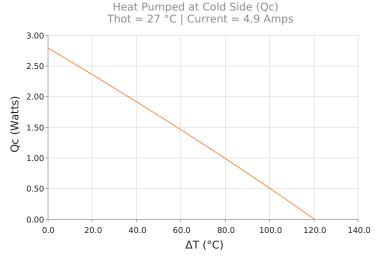


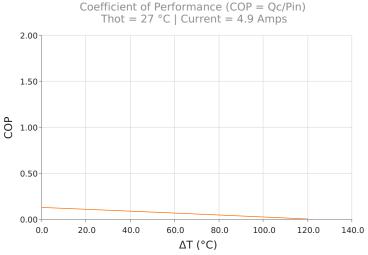














SPECIFICATIONS*

Hot Side Temperature

Qcmax (ΔT = 0)

ΔTmax (Qc = 0)

Imax (I @ ΔTmax)

Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C
3.0 Watts
122.0 °C
6.1 Amps
5.5 Volts
0.89 Ohms
80 °C
40.0 gram(s)

FINISHING OPTIONS

Suffix Thickness		Flatness / Parallelism	Hot Face	Cold Face	Lead Length
00	8.203 ±0.203 mm 0.323 ± 0.008 in	0.025 mm / 0.203 mm 0.001 in / 0.008 in	Metallized	Metallized	199.9 mm 7.87 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
- 4. Solder tinning also available on metallized ceramics

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Date: 06/02/2021

^{*} Specifications reflect thermoelectric coefficients updated March 2020