

Multistage MS Series Thermoelectric Cooler

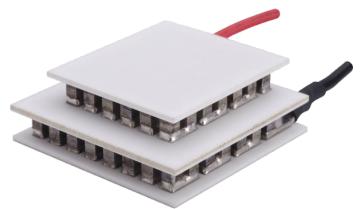
The MS2-051-22-25-22-25-00-W8 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 10.3 Watts when $\Delta T = 0$ and a maximum ΔT of 82 °C at Qc = 0.

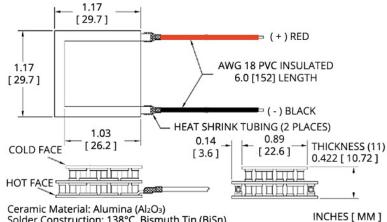
Features

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

Applications

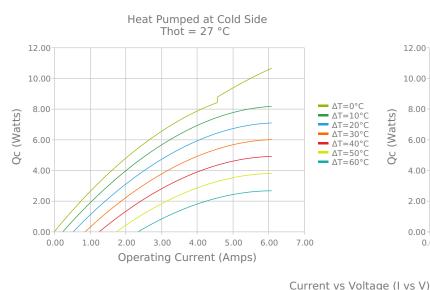
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors

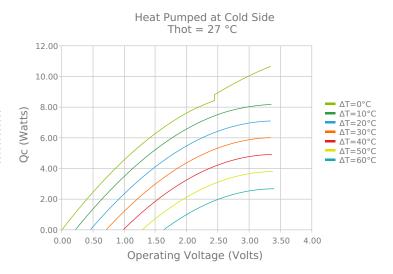


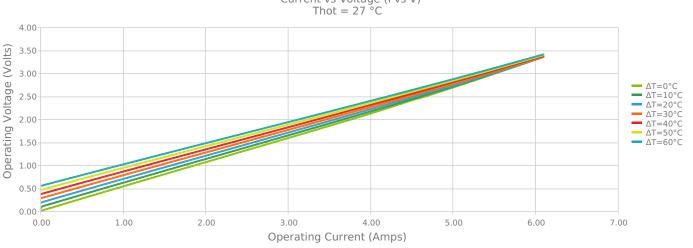


Solder Construction: 138°C, Bismuth Tin (BiSn)

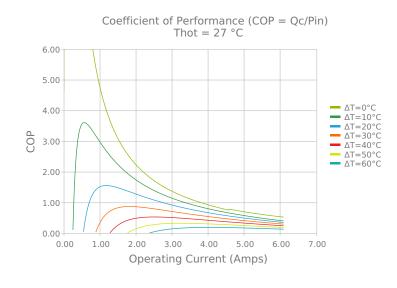
ELECTRICAL AND THERMAL PERFORMANCE

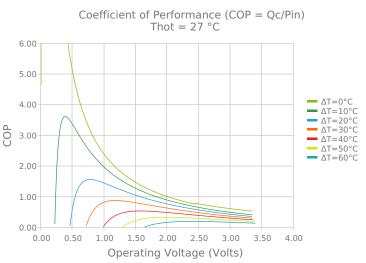


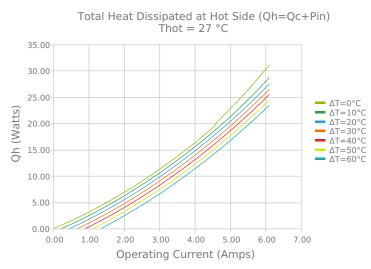


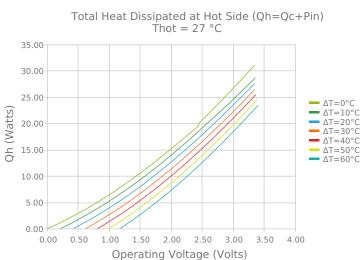


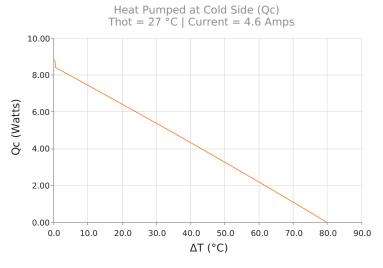


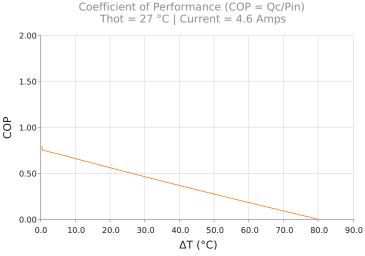














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	
10.3 Watts	
82.0 °C	
6.0 Amps	
3.4 Volts	
0.57 Ohms	
80 °C	
35.0 gram(s)	

FINISHING OPTIONS

Suffix Thickness		Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
00	26.403 ±0.203 mm 1.039 ± 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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^{*} Specifications reflect thermoelectric coefficients updated March 2020