

Multistage MS Series Thermoelectric Cooler

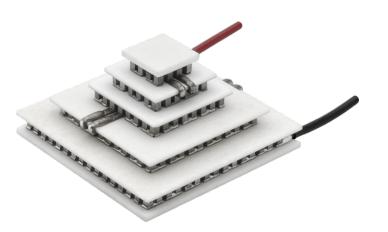
The MS5-257-10-15-11-W8 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 2 Watts when $\Delta T=0$ and a maximum ΔT of 129 °C at Qc = 0.

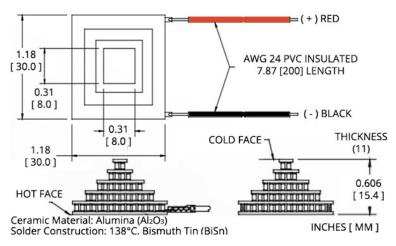
Features

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

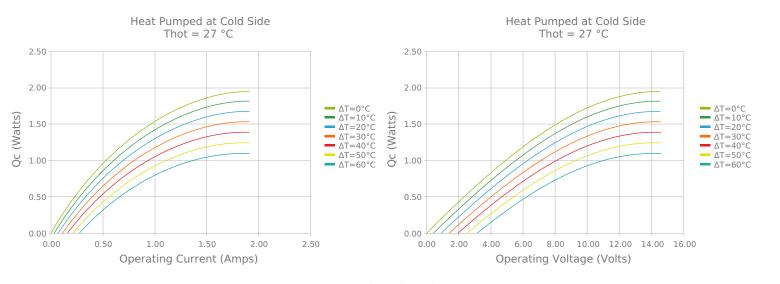
Applications

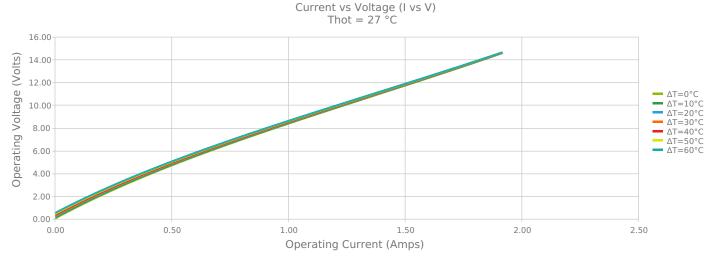
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors



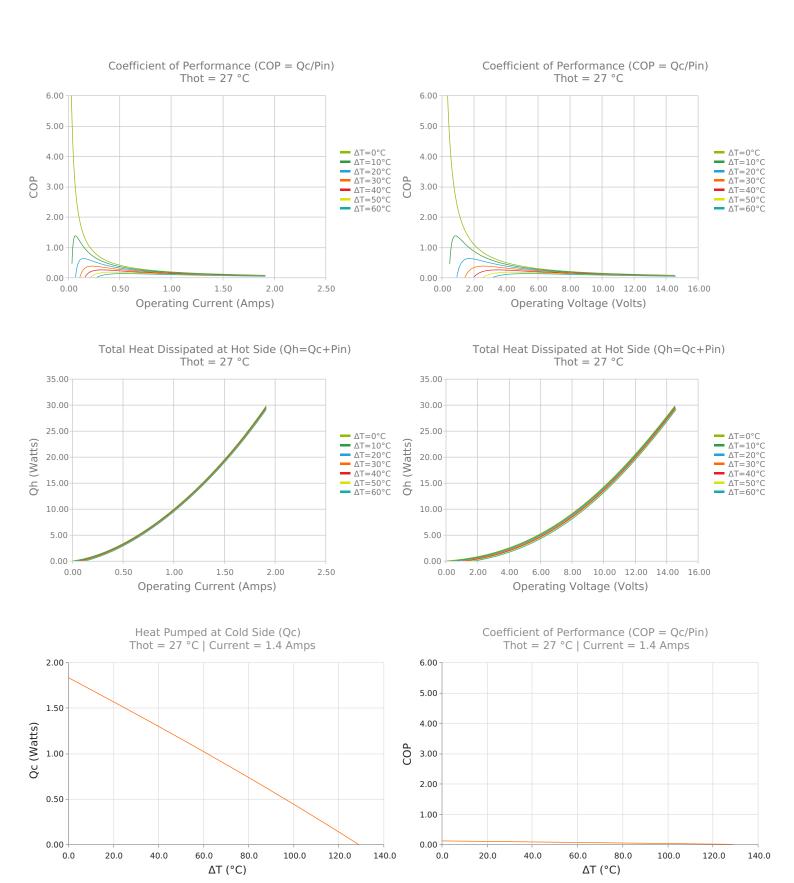


ELECTRICAL AND THERMAL PERFORMANCE











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
2.0 Watts
129.0 °C
1.7 Amps
13.5 Volts
7.94 Ohms
80 °C
21.0 gram(s)

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	8.000 ±0.203 mm 0.315 ± 0.008 in	0.025 mm / 0.203 mm 0.001 in / 0.008 in	Lapped	Lapped	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