

Multistage MS Series Thermoelectric Cooler

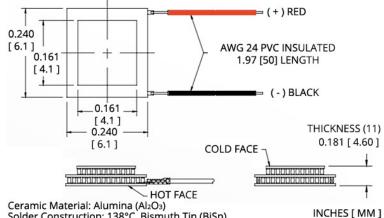
The MS2-024-06-06-11-11-11-W2 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 0.8 Watts when $\Delta T=0$ and a maximum ΔT of 91 $^{\circ}$ C at Qc = 0.

Features

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

Applications

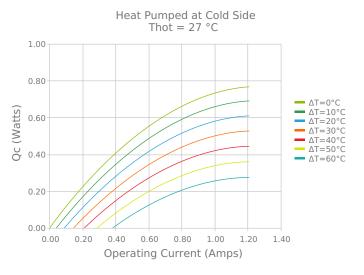
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors

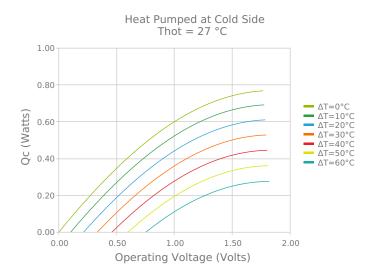


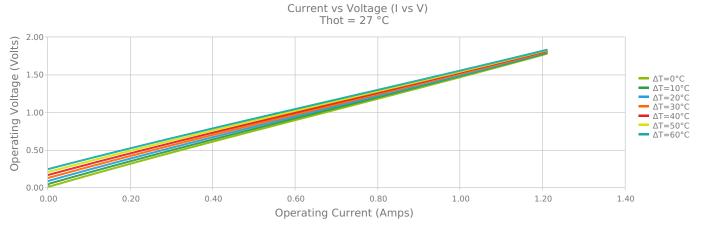
Solder Construction: 138°C, Bismuth Tin (BiSn)

ELECTRICAL AND THERMAL PERFORMANCE

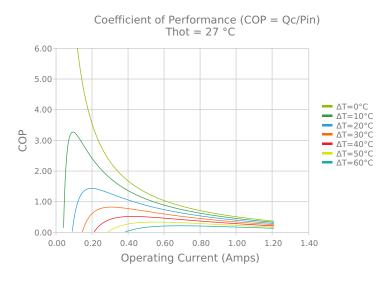
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.

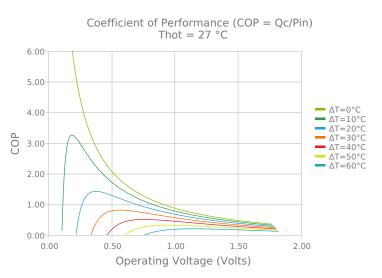


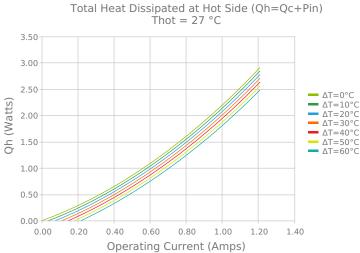


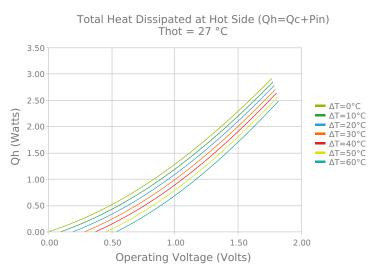


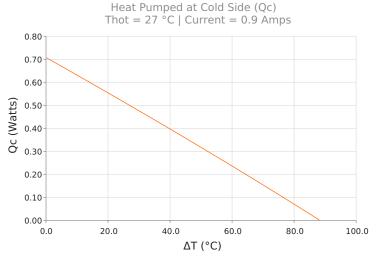


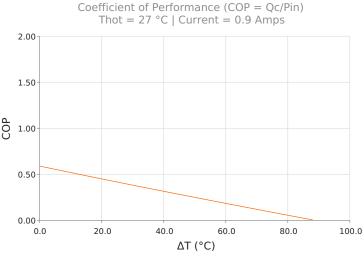














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ \Delta Tmax)

Module Resistance

Max Operating Temperature

Weight

2	7.0 °C
0.	8 Watts
Q	91.0 °C
1.	2 Amps
1	.8 Volts
1.5	55 Ohms
	80 °C
1.0	gram(s)

27 0 00

FINISHING OPTIONS

Suffix	Thickness	ckness Flatness / Parallelism		Cold Face	Lead Length
11	4.600 ±0.203 mm 0.181 ± 0.008 in	0.025 mm / 0.203 mm 0.001 in / 0.008 in	Lapped	Lapped	50.0 mm 1.97 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