Multistage MS Series Thermoelectric Cooler

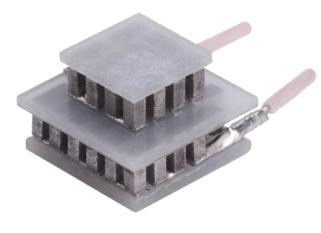
The MS2-024-06-06-11-11-11-RT-W2 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 0.8 Watts when $\Delta T = 0$ and a maximum ΔT of 91 °C at Qc = 0.

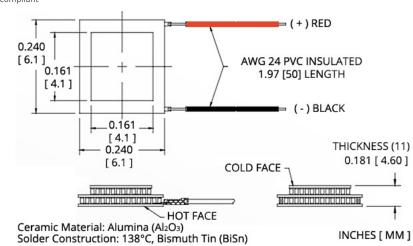
Features

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

Applications

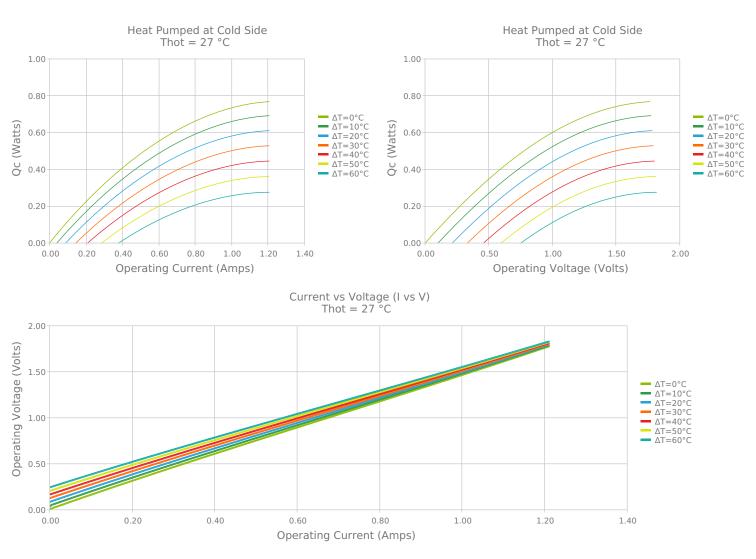
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors

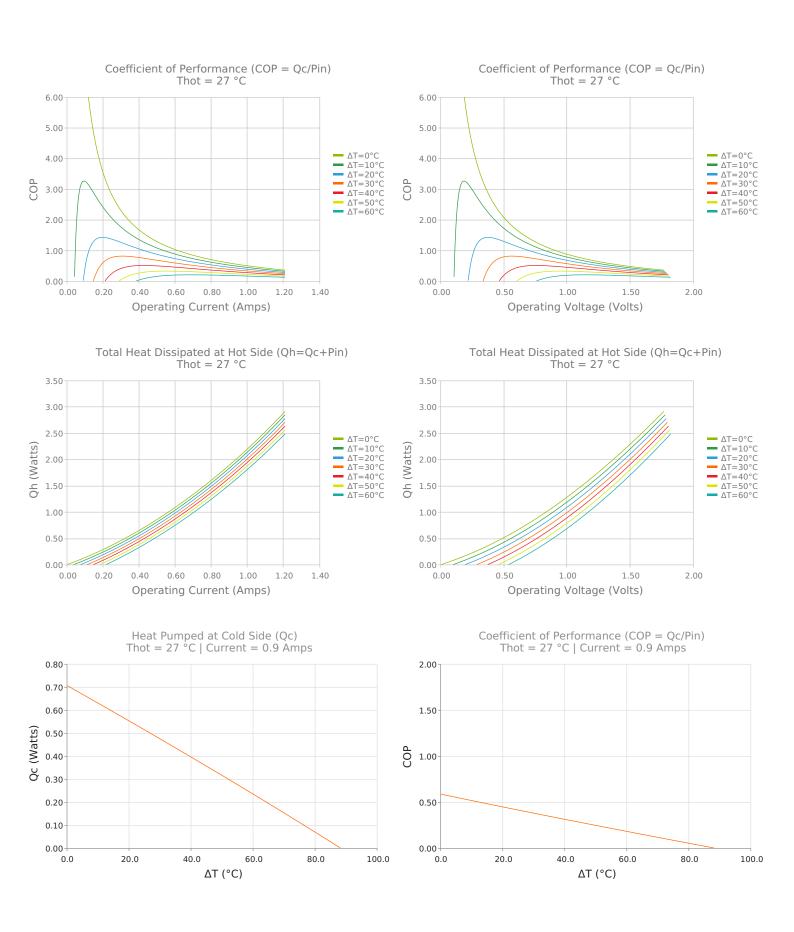




Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	
$Qcmax (\Delta T = 0)$	0.8 Watts	
$\Delta T max (Qc = 0)$	91.0 °C	
lmax (I @ ΔTmax)	1.2 Amps	
Vmax (V @ ΔTmax)	1.8 Volts	
Module Resistance	1.55 Ohms	
Max Operating Temperature	80 °C	
Weight	1.0 gram(s)	

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
11	$4.100 \pm 0.203 \text{ mm}$ $0.161 \pm 0.008 \text{ in}$	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
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

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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