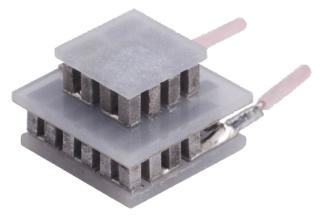


### Multistage MS Series Thermoelectric Cooler

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  $\Delta T$  of 91 °C at Qc = 0.

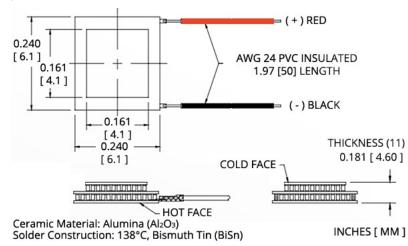


#### Features

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

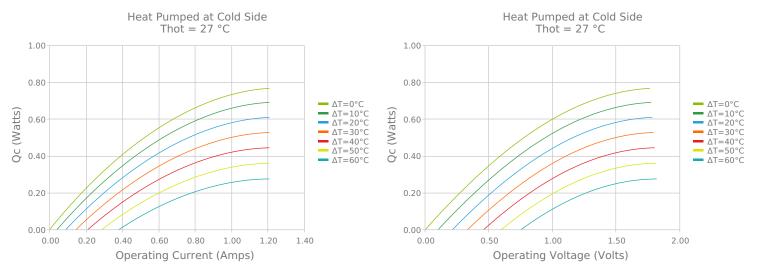
### **Applications**

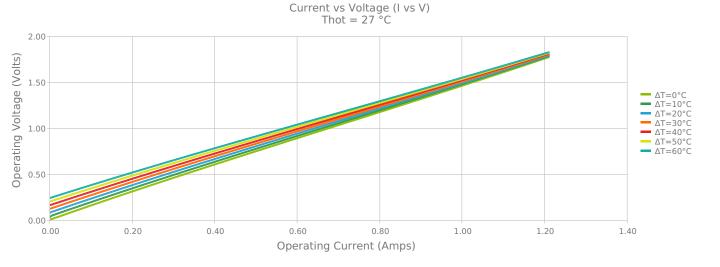
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors



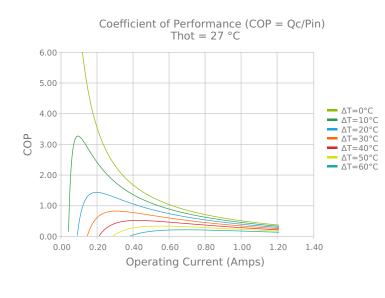
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

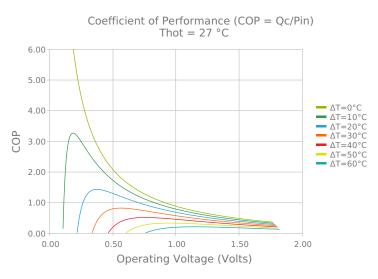
# **ELECTRICAL AND THERMAL PERFORMANCE**

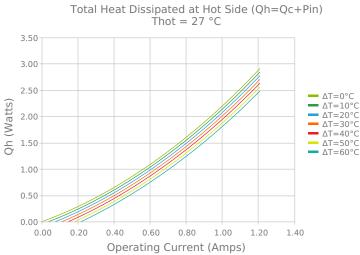


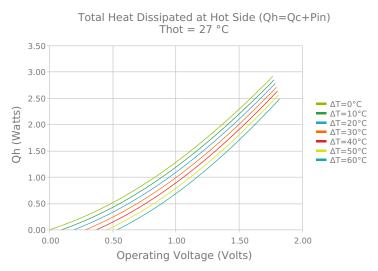


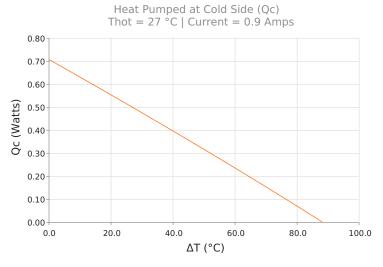


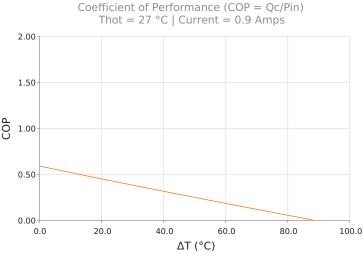














## **SPECIFICATIONS\***

**Hot Side Temperature** 

 $Qcmax (\Delta T = 0)$ 

 $\Delta T max (Qc = 0)$ 

Imax (I @ \Darkstrum \

Vmax (V @ \Delta Tmax)

**Module Resistance** 

**Max Operating Temperature** 

Weight

27.0	
0.8 W	atts
91.0	°C
1.2 Aı	mps
1.8 V	olts
1.55 C	hms
80 °	°C
1.0 gra	ım(s)

27 0 00

# **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	<b>Hot Face</b>	<b>Cold Face</b>	<b>Lead Length</b>	
11	4.100 ±0.203 mm 0.161 ± 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	<b>Temp Range</b>	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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Date: 12/14/2021

<sup>\*</sup> Specifications reflect thermoelectric coefficients updated March 2020