

Multistage MS Series Thermoelectric Cooler

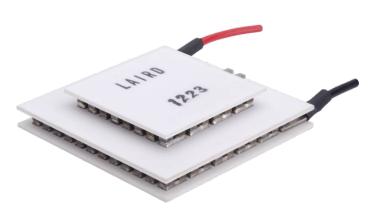
The MS2-102-22-22-17-17-00-W8 multistage thermoelectric cooler is able to reach colder temperatures than single stage thermoelectric coolers. It has a maximum Qc of 27.9 Watts when $\Delta T=0$ and a maximum ΔT of 94 °C at Qc = 0.

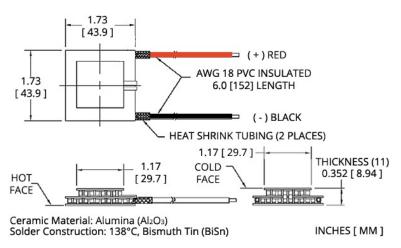
Features

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

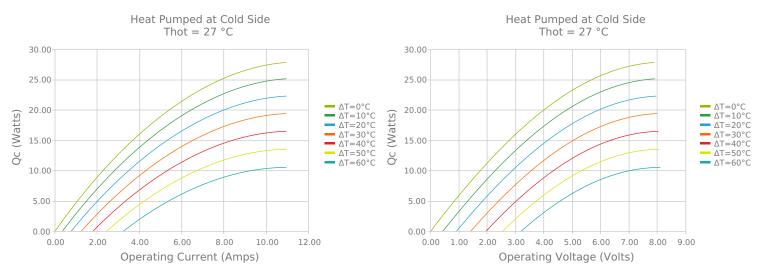
Applications

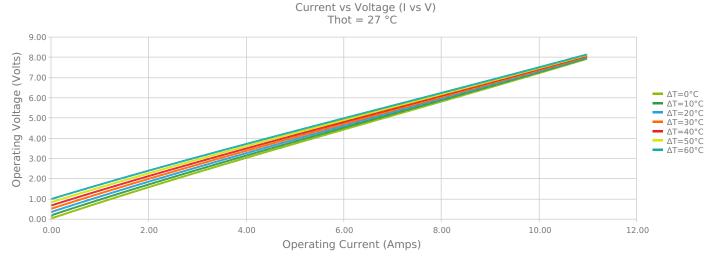
- Thermoelectric Cooling for CMOS Sensors
- Heads-Up Displays, Imaging Sensors



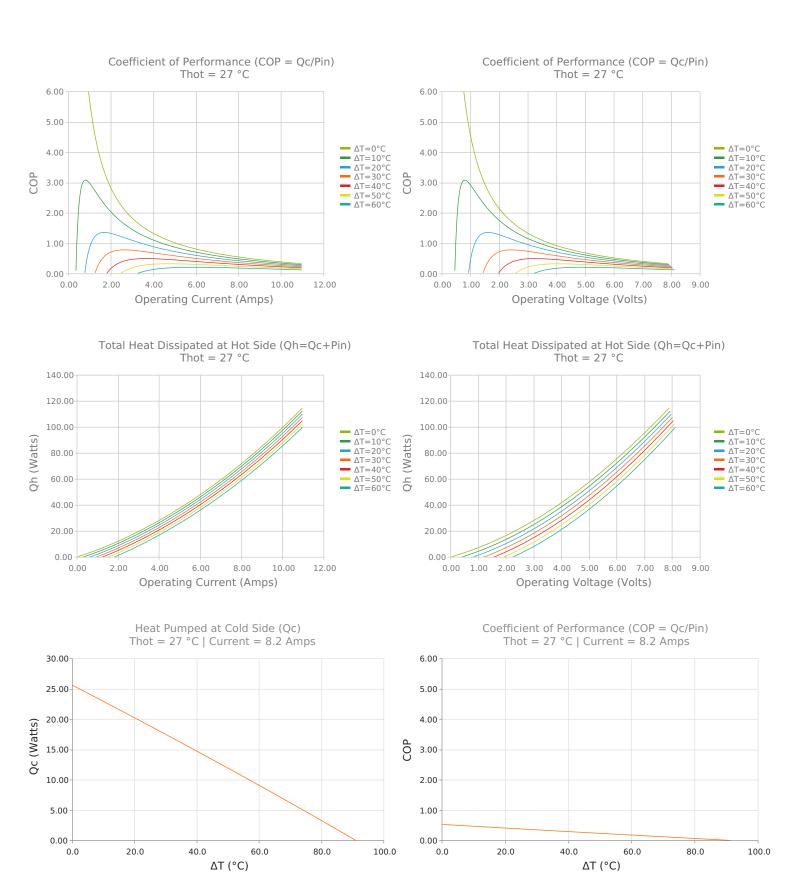


ELECTRICAL AND THERMAL PERFORMANCE











SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ \Delta Tmax)

Module Resistance

Max Operating Temperature

Weight

	27.0 °C	
	27.9 Watts	
	94.0 °C	
	10.6 Amps	
	8.0 Volts	
	0.75 Ohms	
	80 °C	
(61.0 gram(s)	

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
00	29.903 ±0.203 mm 1.177 ± 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