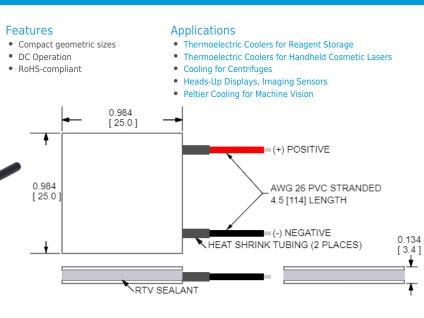


Ceramic Plate Series CP08-127-06-L1-RT-W4.5 MFG Part Number: 66195-504

Ceramic Plate Series Thermoelectric Cooler

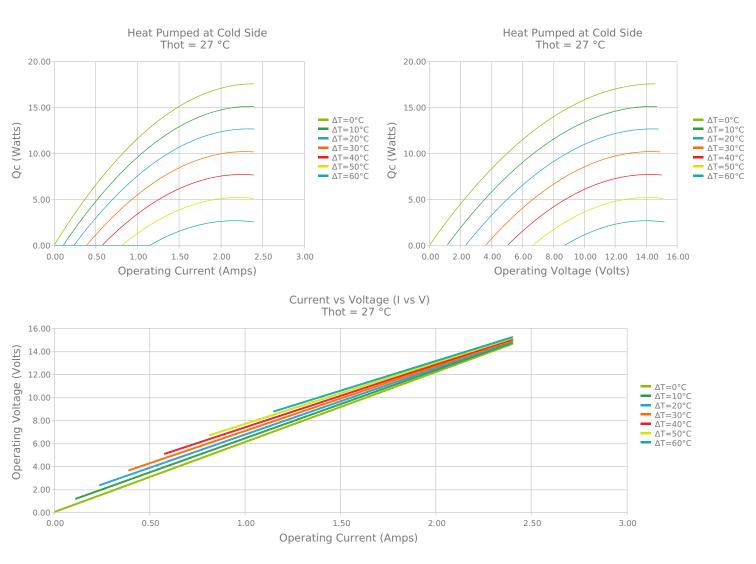
The CP08-127-06-L1-RT-W4.5 is a high-performance and highly reliable standard Thermoelectric Cooler. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics. It has a maximum Qc of 17.5 Watts when $\Delta T = 0$ and a maximum ΔT of 70.5 °C at Qc = 0.

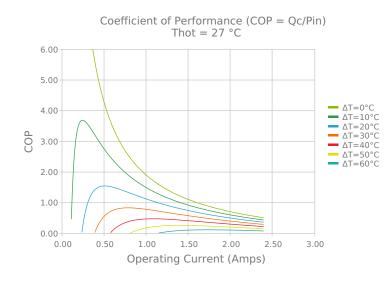


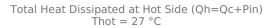
CERAMIC MATERIAL: Al2O3

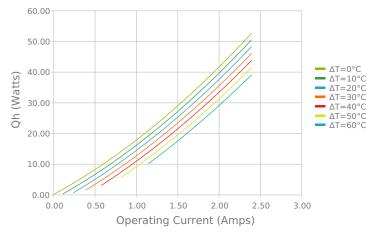
SOLDER CONSTRUCTION: 138°C, BISN INCHES [MM] Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

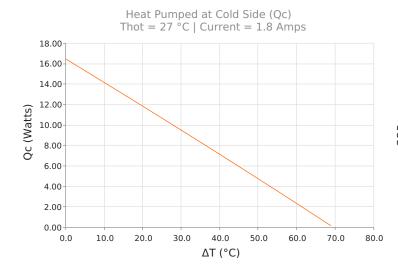
ELECTRICAL AND THERMAL PERFORMANCE

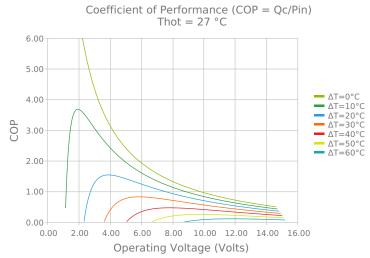


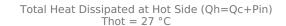


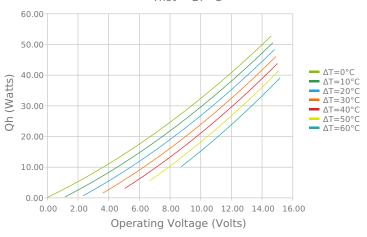




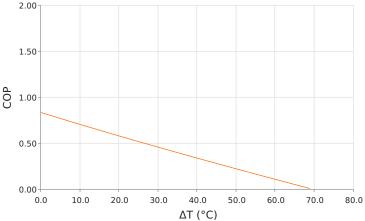








Coefficient of Performance (COP = Qc/Pin) Thot = 27 °C | Current = 1.8 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	17.5 Watts	18.1 Watts	19.0 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	2.1 Amps	2.1 Amps	2.1 Amps
Vmax (V @ ΔTmax)	13.9 Volts	14.4 Volts	15.4 Volts
Module Resistance	6.09 Ohms	6.34 Ohms	6.82 Ohms
Max Operating Temperature	80 °C		
Weight	7.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	3.403 ±0.025 mm 0.134 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	114.3 mm 4.50 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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Date: 12/14/2021