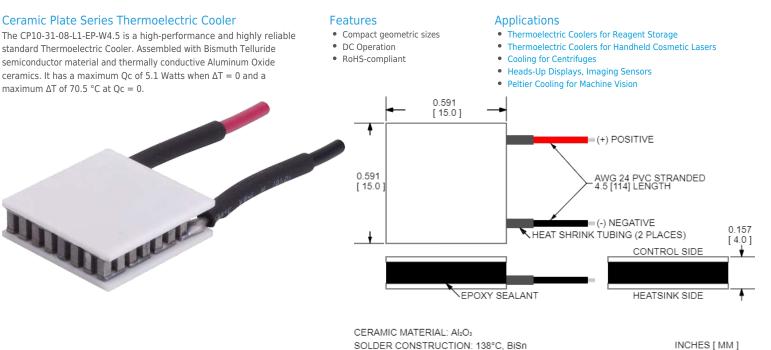


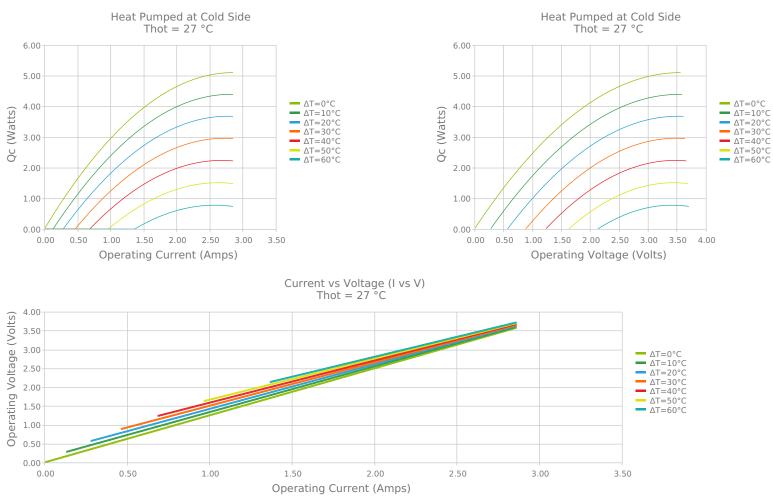
Ceramic Plate Series CP10-31-08-L1-EP-W4.5 MFG Part Number: 101031025111

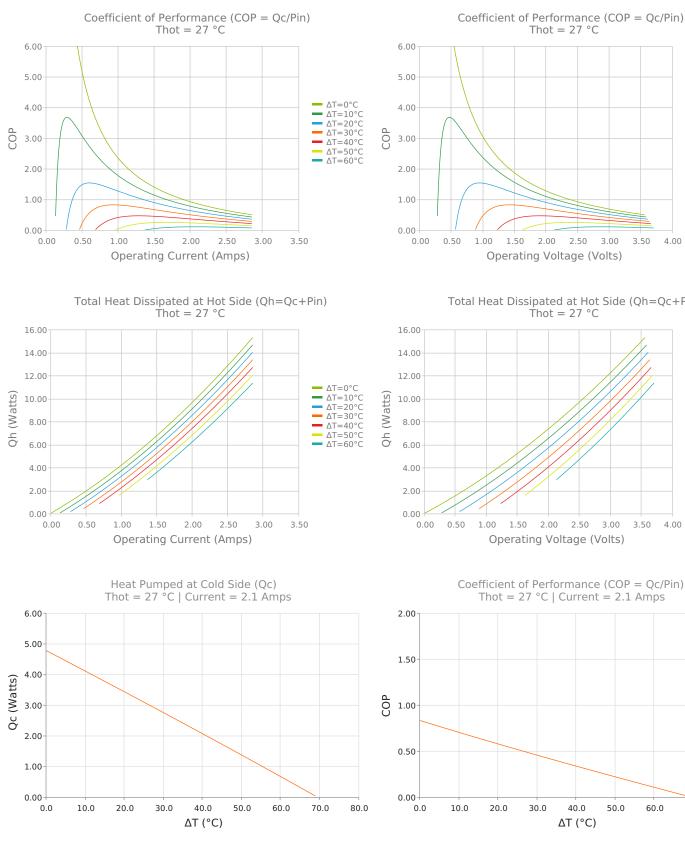


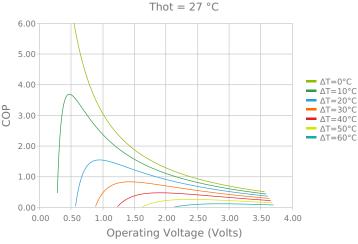
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE

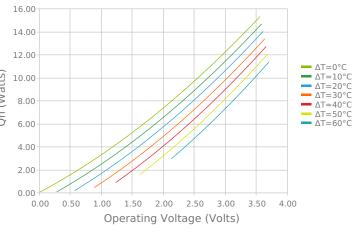
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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



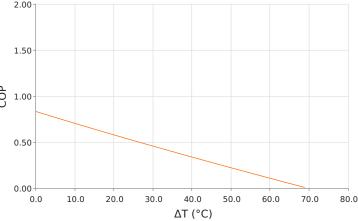




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 27 °C



Coefficient of Performance (COP = Qc/Pin) Thot = 27 °C | Current = 2.1 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	5.1 Watts	5.3 Watts	5.5 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	2.5 Amps	2.5 Amps	2.5 Amps
Vmax (V @ ΔTmax)	3.4 Volts	3.5 Volts	3.8 Volts
Module Resistance	1.25 Ohms	1.30 Ohms	1.40 Ohms
Max Operating Temperature	80 °C		
Weight	4.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	3.988 ±0.025 mm 0.157 ± 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
EP	Ероху	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant

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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