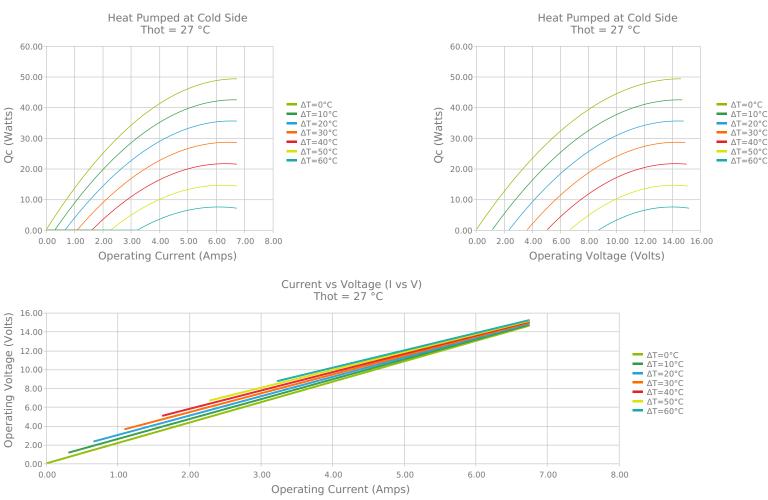


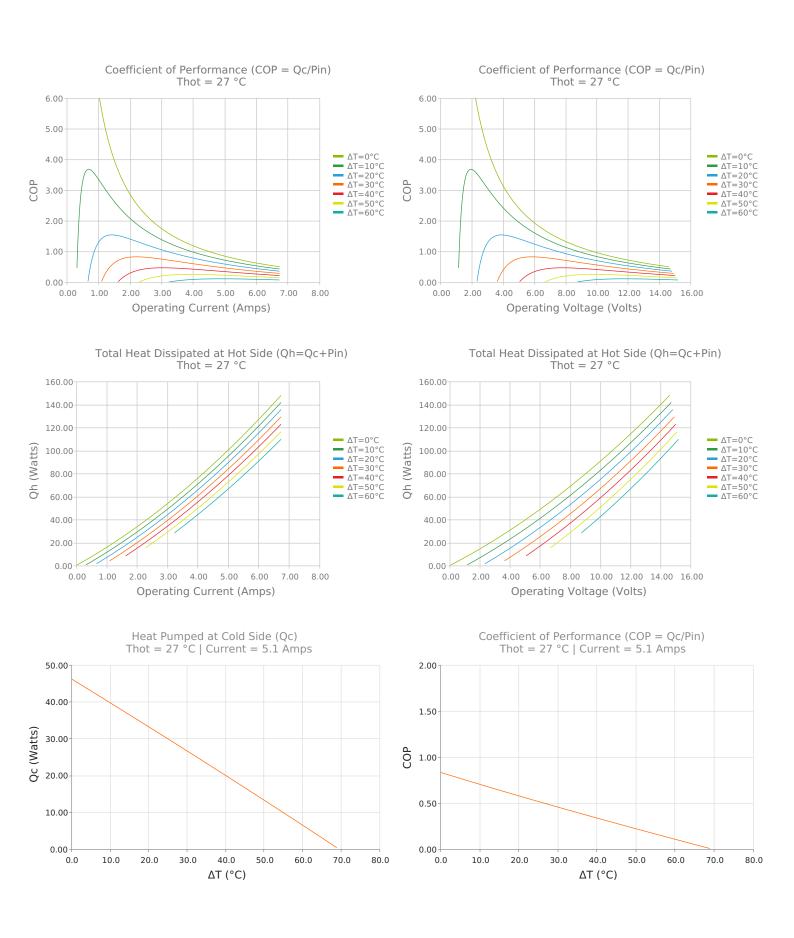
Ceramic Plate Series Thermoelectric Cooler **Features Applications** The CP14-127-06-L2-EP-W10 is a high-performance and highly reliable Thermoelectric Coolers for Reagent Storage Compact geometric sizes DC Operation Thermoelectric Coolers for Handheld Cosmetic Lasers • standard Thermoelectric Cooler. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide RoHS-compliant • Cooling for Centrifuges • Heads-Up Displays, Imaging Sensors ceramics. It has a maximum Qc of 49.3 Watts when $\Delta T = 0$ and a Peltier Cooling for Machine Vision maximum ΔT of 70.5 °C at Qc = 0. 1 575 [40.0] (+) POSITIVE 1.575 AWG 18 PVC STRANDED 10.0 [254] LENGTH [40.0 REFERENCES OF (-) NEGATIVE 0 150 HEAT SHRINK TUBING (2 PLACES) [3.8] CONTROL SIDE ŧ POXY SEALANT HEATSINK SIDE

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

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.





SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	49.3 Watts	50.8 Watts	53.5 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	6.0 Amps	5.9 Amps	5.9 Amps
Vmax (V @ ΔTmax)	13.9 Volts	14.4 Volts	15.4 Volts
Module Resistance	2.17 Ohms	2.26 Ohms	2.43 Ohms
Max Operating Temperature	80 °C		
Weight	21.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L2	3.810 ±0.013 mm 0.150 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 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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