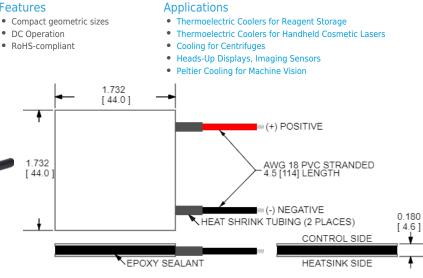


#### Ceramic Plate Series Thermoelectric Cooler

LULUUUU

The CP2-71-06-L1-EP-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 65.9 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 70.5 °C at Qc = 0.

#### Features

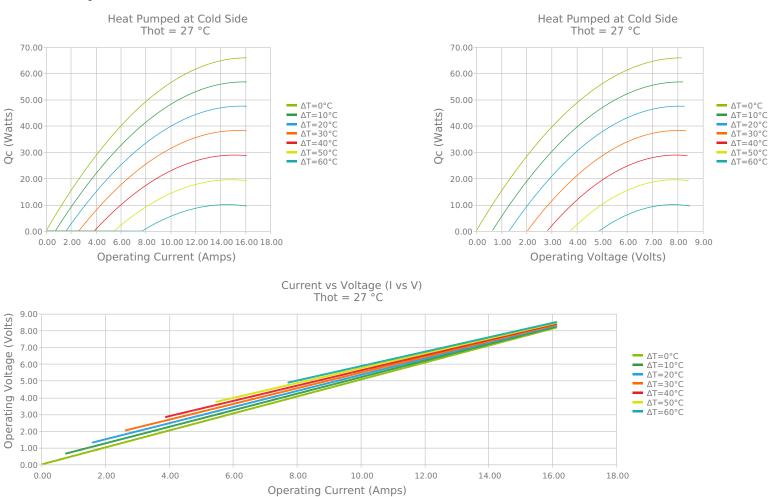


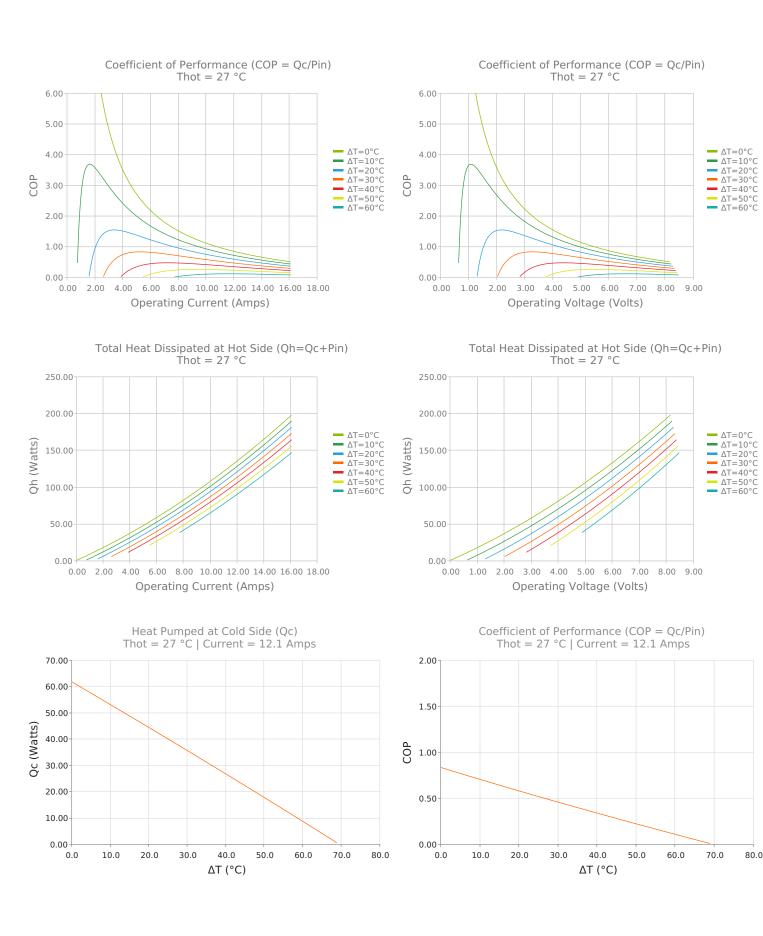
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C. BiSn INCHES [ MM ] Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

### **ELECTRICAL AND THERMAL PERFORMANCE**

a contraction

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
$Qcmax (\Delta T = 0)$	65.9 Watts	67.9 Watts	71.4 Watts
$\Delta Tmax (Qc = 0)$	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	14.2 Amps	14.2 Amps	14.0 Amps
Vmax (V @ ΔTmax)	7.8 Volts	8.1 Volts	8.6 Volts
Module Resistance	0.51 Ohms	0.53 Ohms	0.57 Ohms
Max Operating Temperature	80 °C		
Weight	38.0 gram(s)		

\* Specifications reflect thermoelectric coefficients updated March 2020

# **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	4.572 ±0.025 mm 0.180 ± 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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