

Ceramic Plate Series Thermoelectric Cooler

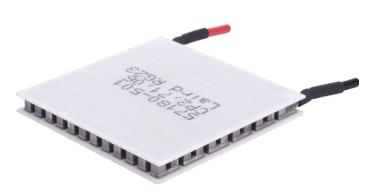
The CP2-71-06-L1-W4.5 is a high-performance and highly reliable standard Thermoelectric Cooler. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics. It has a maximum Qc of 65.9 Watts when $\Delta T=0$ and a maximum ΔT of 70.5 °C at Qc = 0.

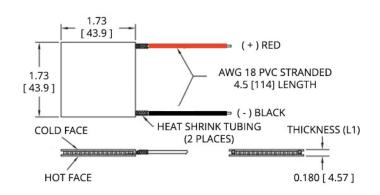
Features

- Compact geometric sizes
- DC Operation
- RoHS-compliant

Applications

- Thermoelectric Coolers for Reagent Storage
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Cooling for Centrifuges
- Heads-Up Displays, Imaging Sensors
- Peltier Cooling for Machine Vision

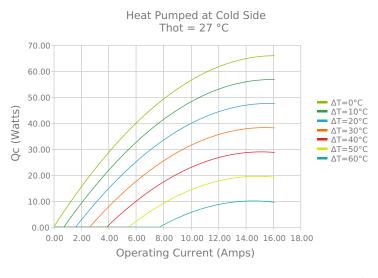


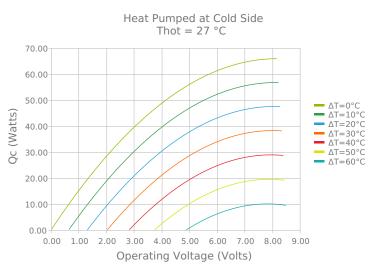


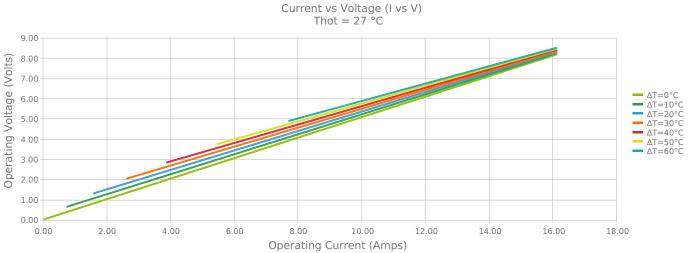
Ceramic Material: Alumina (Al₂O₃) Solder Construction: 138°C, Bismuth Tin (BiSn)

INCHES [MM]

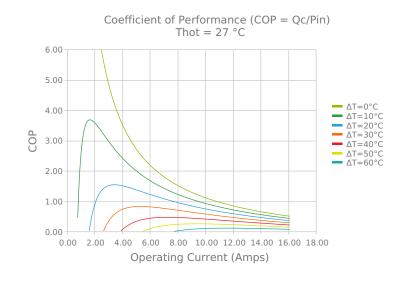
ELECTRICAL AND THERMAL PERFORMANCE

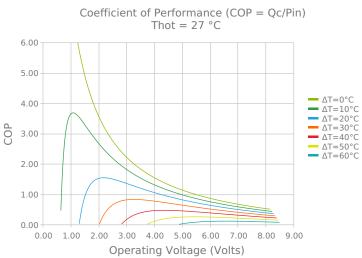


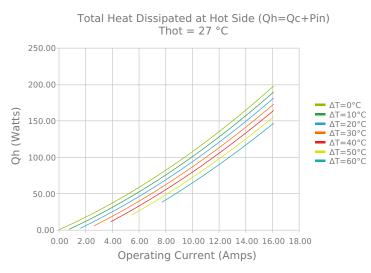


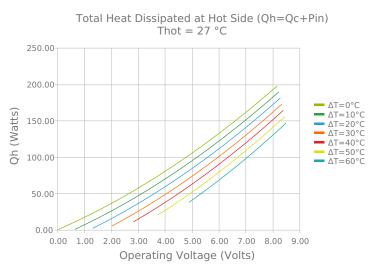


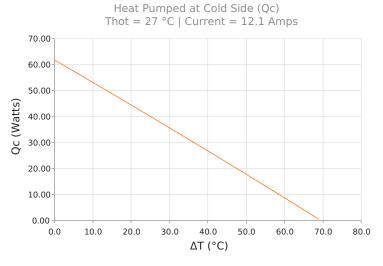


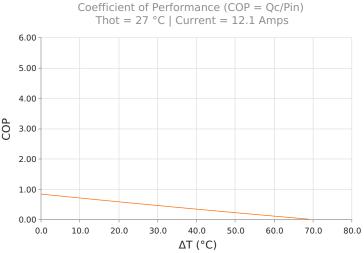














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ \Darmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
65.9 Watts	67.9 Watts	71.4 Watts
70.5°C	73.5°C	78.8°C
14.2 Amps	14.2 Amps	14.0 Amps
7.8 Volts	8.1 Volts	8.6 Volts
0.51 Ohms	0.53 Ohms	0.57 Ohms
80 °C		
38.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1 4.572 ±0.025 mm 0.180 ± 0.001 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
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