

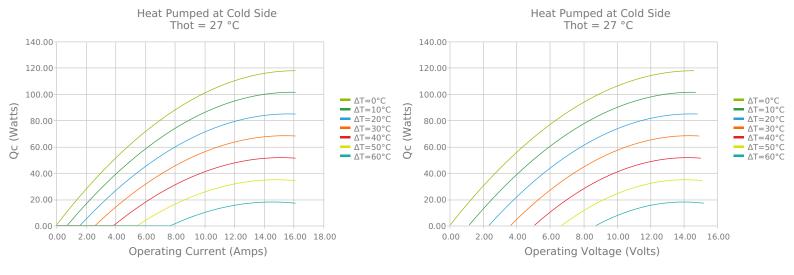
Features Ceramic Plate Series Thermoelectric Cooler Applications The CP2-127-06-L1-W4.5 is a high-performance and highly reliable Compact geometric sizes Thermoelectric Coolers for Reagent Storage standard Thermoelectric Cooler. Assembled with Bismuth Telluride DC Operation Thermoelectric Coolers for Handheld Cosmetic Lasers semiconductor material and thermally conductive Aluminum Oxide RoHS-compliant Cooling for Centrifuges ceramics. It has a maximum Qc of 117.8 Watts when $\Delta T = 0$ and a Peltier Cooling for Machine Vision maximum ΔT of 70.5 °C at Qc = 0. 2.441 [62.0] (+) POSITIVE (-) NEGATIVE 0.180 HEAT SHRINK TUBING (2 PLACES) [4.6] CONTROL SIDE AMBIENT SIDE

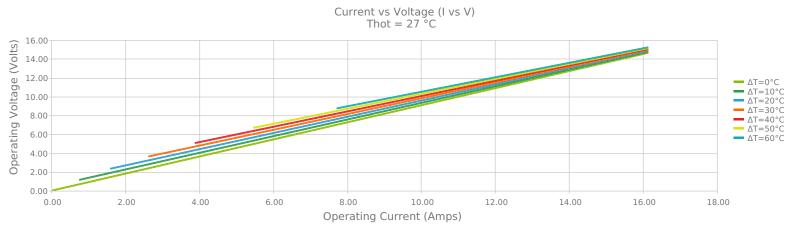
CERAMIC MATERIAL: Al₂O₃
SOLDER CONSTRUCTION: 138°C, BiSn

INCHES [MM]

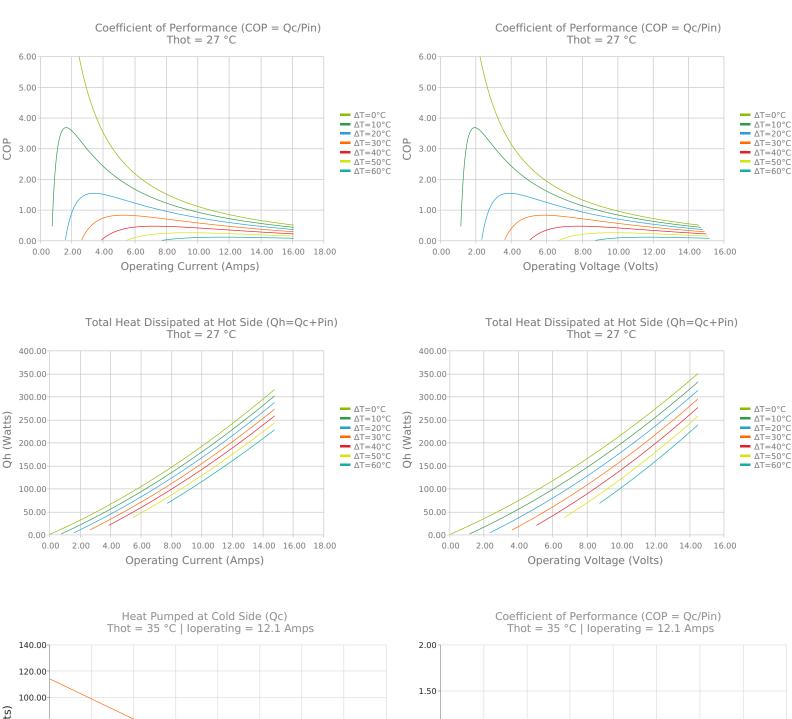
Electrical and Thermal Performance

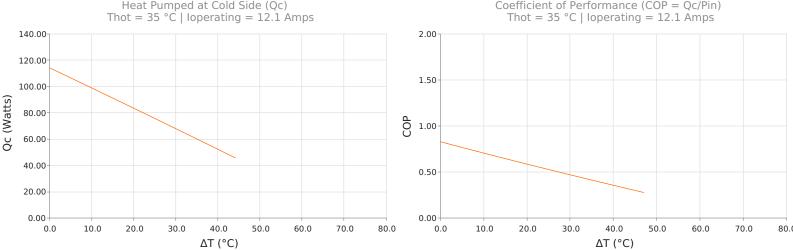
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the AMBIENT side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful 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 ($\Delta T = 0$)	117.8 Watts	121.4 Watts	127.7 Watts
$\Delta T max (Qc = 0)$	70.5°C	73.5°C	78.8°C
Imax (I @ ΔTmax)	14.2 Amps	14.2 Amps	14.0 Amps
Vmax (V @ ΔTmax)	13.9 Volts	14.4 Volts	15.4 Volts
Module Resistance	0.91 Ohms	0.94 Ohms	1.02 Ohms
Max Operating Temperature	80 °C		
Weight	68.0 gram(s)		

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
	None			No sealing specified

Notes

Max operating temperature: 80°C Do not exceed Imax or Vmax when operating module Reference assembly guidelines for recommended installation Solder tinning also available on metallized ceramics

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