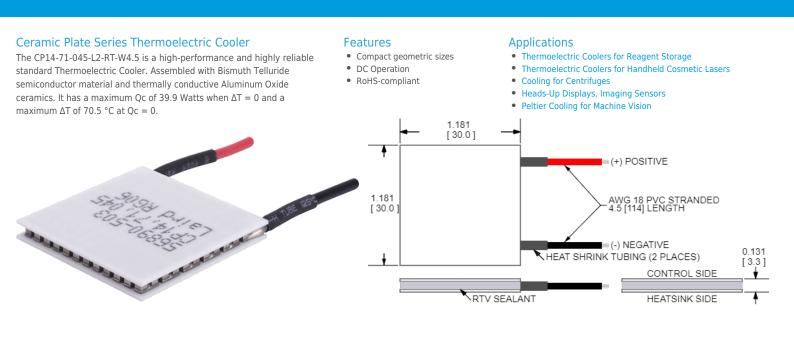
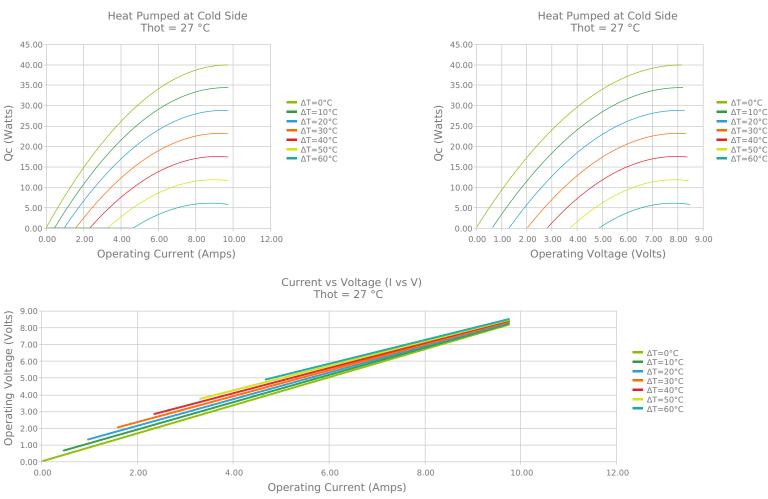
Ceramic Plate Series CP14-71-045-L2-RT-W4.5 MFG Part Number: 58890-502

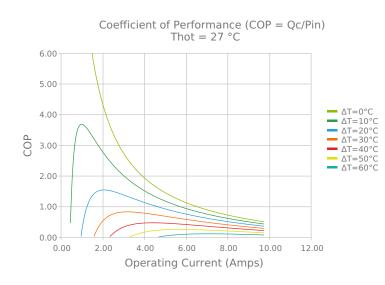


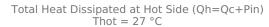
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn INCHES [MM] Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

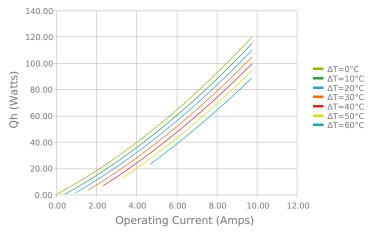
ELECTRICAL AND THERMAL PERFORMANCE

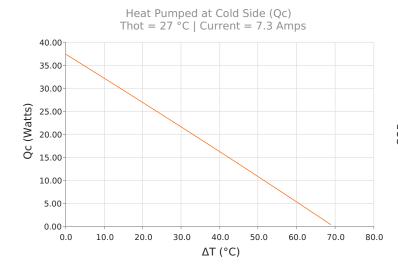
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

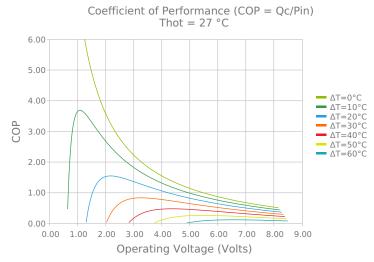




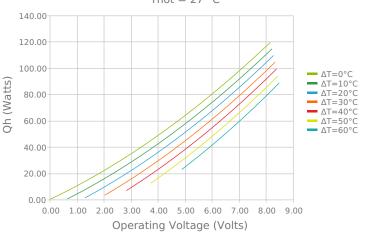




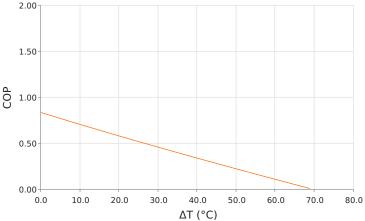




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 27 $^{\circ}C$



Coefficient of Performance (COP = Qc/Pin) Thot = $27 \degree C$ | Current = 7.3 Amps



SPECIFICATIONS*

| Hot Side Temperature | 27.0 °C | 35.0 °C | 50.0 °C |
|---------------------------|--------------|------------|------------|
| $Qcmax (\Delta T = 0)$ | 39.9 Watts | 41.1 Watts | 43.2 Watts |
| $\Delta T max (Qc = 0)$ | 70.5°C | 73.5°C | 78.8°C |
| lmax (I @ ΔTmax) | 8.6 Amps | 8.6 Amps | 8.5 Amps |
| Vmax (V @ ΔTmax) | 7.8 Volts | 8.1 Volts | 8.6 Volts |
| Module Resistance | 0.84 Ohms | 0.87 Ohms | 0.94 Ohms |
| Max Operating Temperature | 80 °C | | |
| Weight | 12.0 gram(s) | | |

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

| Suffix | Thickness | Flatness / Parallelism | Hot Face | Cold Face | Lead Length |
|--------|--------------------------------------|--|----------|-----------|---------------------|
| L2 | 3.327 ±0.013 mm 0.131 ± 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 |
|--------|---------|----------------------|--------------|----------------------------------|
| RT | RTV | Translucent or White | -60 to 204°C | Non-corrosive, silicone adhesive |

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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