

Series.

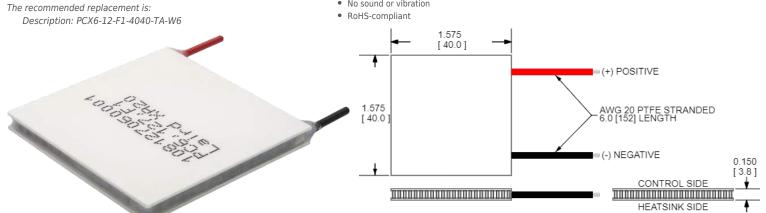
PowerCycling PC Series Thermoelectric Cooler **Features** Note: This product is not recommended for new designs. • High thermal cycling capability • Precise temperature control This product series has been replaced with the PowerCycling PCX

• Reliable solid-state operation

• No sound or vibration

Applications

- Thermoelectric Modules Accelerate PCR Thermal Cycling
- DNA Amplification (PCR)

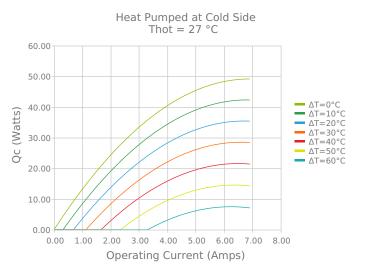


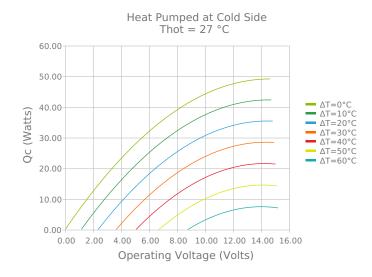
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 232°C. SbSn

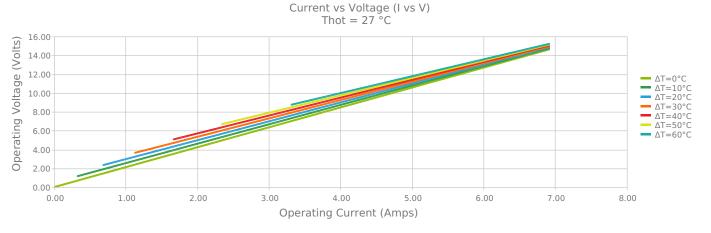
INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

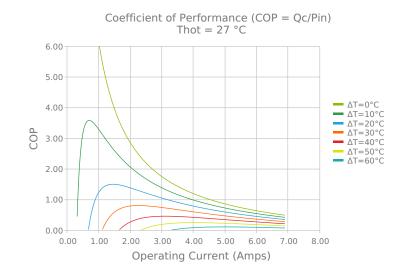
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

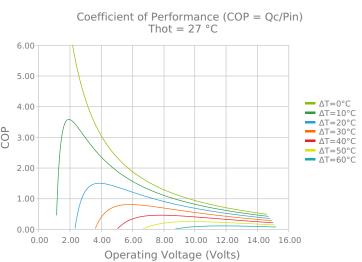


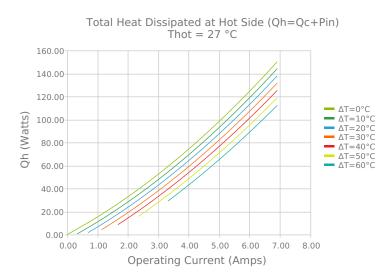


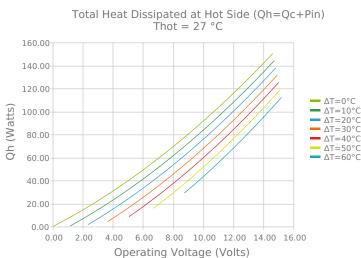


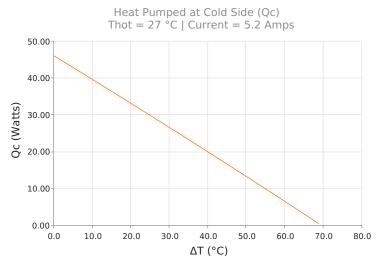


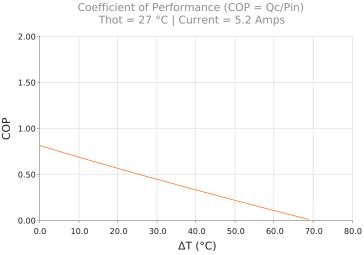














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darmax)

Vmax (V @ Δ Tmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	50.0 °C	80.0 °C
49.1 Watts	53.3 Watts	57.8 Watts
70.5°C	78.8°C	88.8°C
6.1 Amps	6.0 Amps	5.9 Amps
13.9 Volts	15.4 Volts	17.4 Volts
2.11 Ohms	2.37 Ohms	2.69 Ohms
120 °C		
21.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТА	3.800 ±0.025 mm 0.150 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

- 1. Max operating temperature: 120°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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Revision: 00 Date: 06-01-2022 Print Date: 06-15-2022

^{*} Specifications reflect thermoelectric coefficients updated March 2020