

PolarTEC™ PT Series Thermoelectric Cooler

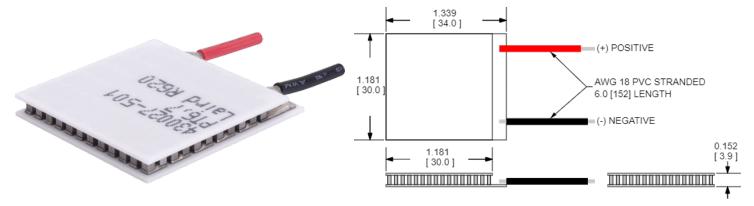
The PT6-7-F2-3030-TA-W6 is a porch-style thermoelectric cooler. The hot side ceramic has an extended edge, which allows for a strong lead attachment to accommodate the wiring of multiple thermoelectric coolers into an array. It has a maximum Qc of 28.3 Watts when $\Delta T=0$ and a maximum ΔT of 70.5 °C at Qc = 0.

Features

- Strong lead attachment
- Precise temperature control
- Reliable solid-state operation
- No sound or vibrationDC operation
- RoHS-compliant

Applications

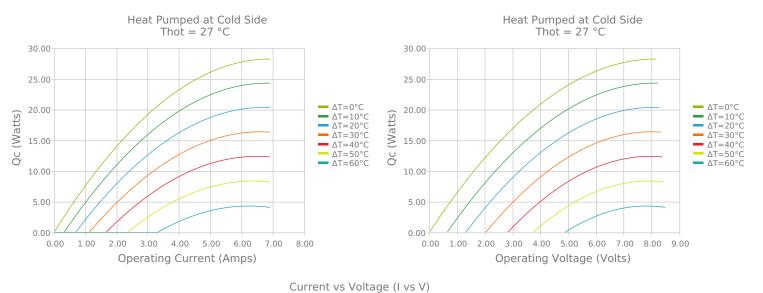
- Cooling for Mobile Base Stations and Cell Towers
- Thermal Management Solutions for Beverage Cooling
- Cooling for Centrifuges
- Energy Storage Systems

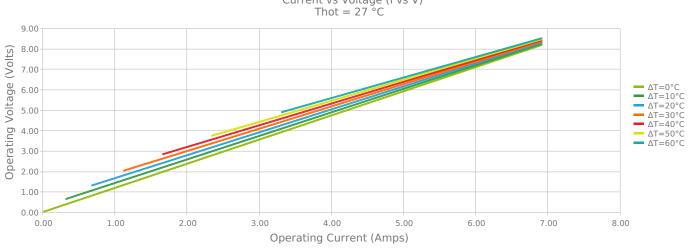


CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

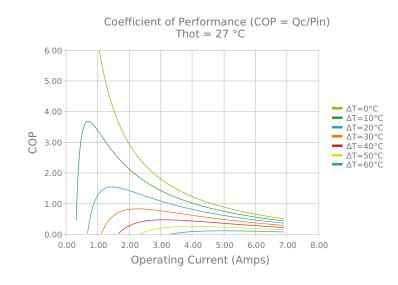
INCHES [MM]

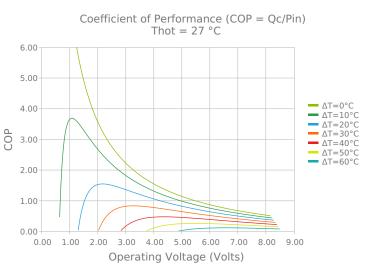
ELECTRICAL AND THERMAL PERFORMANCE

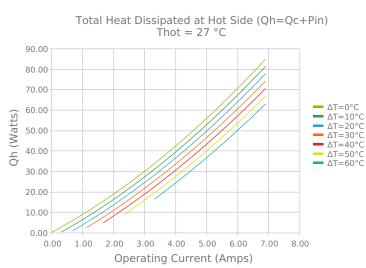


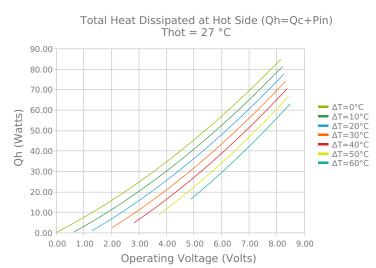


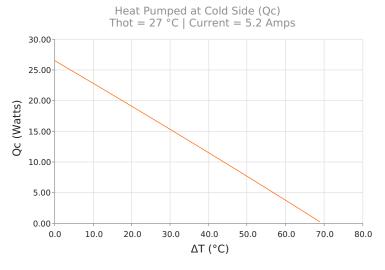


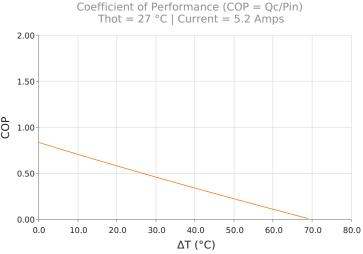














SPECIFICATIONS*

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
28.3 Watts	29.1 Watts	30.6 Watts
70.5°C	73.5°C	78.8°C
6.1 Amps	6.1 Amps	6.0 Amps
7.8 Volts	8.1 Volts	8.6 Volts
1.18 Ohms	1.23 Ohms	1.32 Ohms
80 °C		
15.0 gram(s)		

FINISHING OPTIONS

	Suffix Thickness		Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
		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: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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Date: 06/03/2021

^{*} Specifications reflect thermoelectric coefficients updated March 2020