

#### PolarTEC<sup>™</sup> 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  $\Delta T$  of 70.5 °C at Qc = 0.

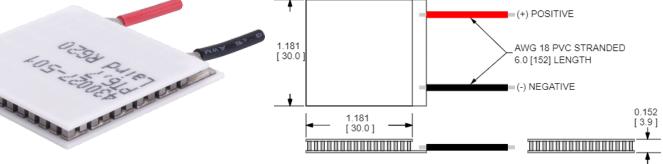


#### Strong lead attachment

- Precise temperature control
- Reliable solid-state operation No sound or vibration
- DC operation
- RoHS-compliant

#### **Applications**

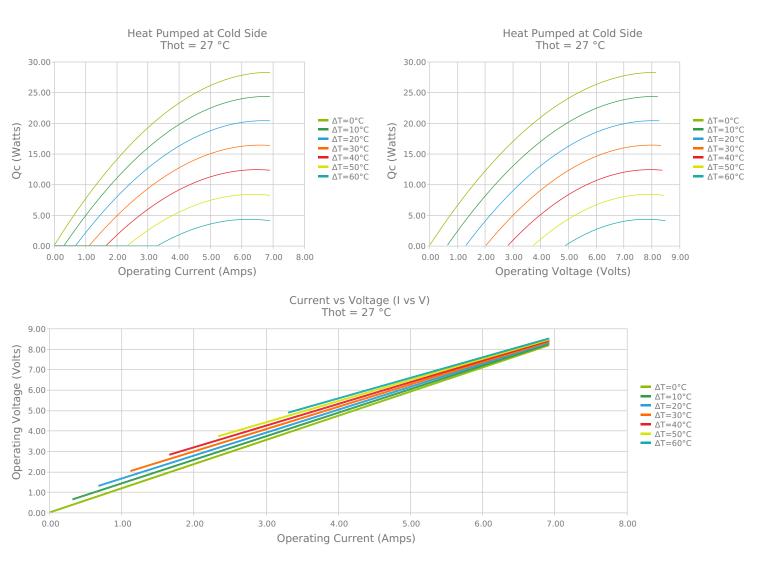
 Cooling for Mobile Base Stations and Cell Towers • Thermal Management Solutions for Beverage Cooling • Cooling for Centrifuges Energy Storage Systems 1.339 [ 34.0 ] (+) POSITIVE

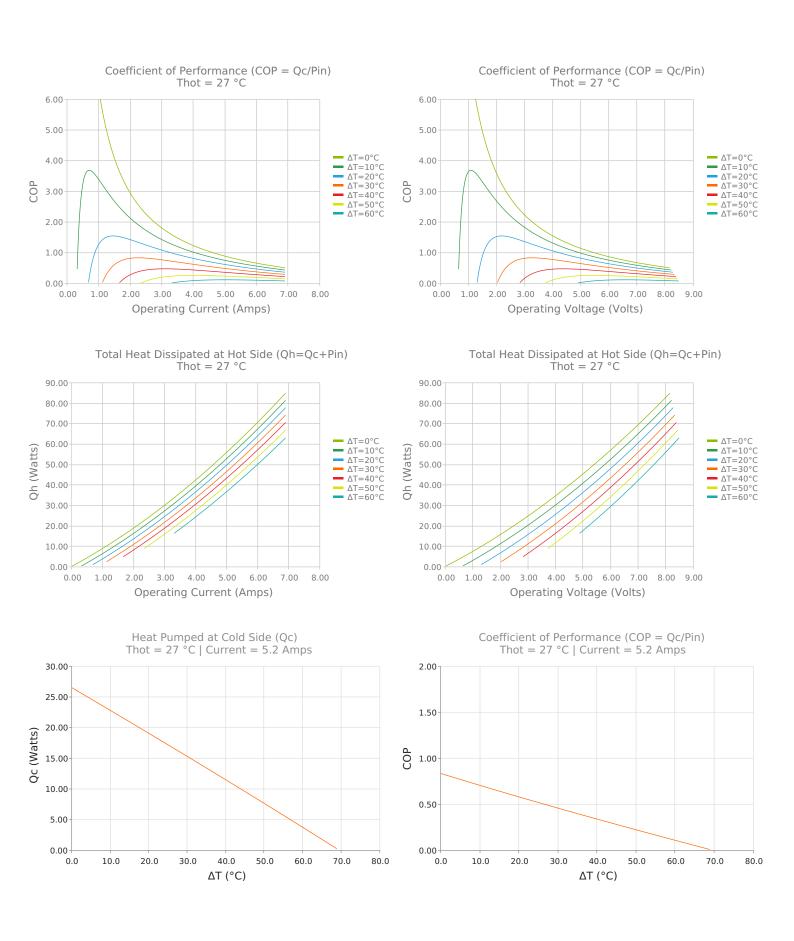


CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BISn

INCHES [ MM ]

#### **ELECTRICAL AND THERMAL PERFORMANCE**





### **SPECIFICATIONS\***

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	28.3 Watts	29.1 Watts	30.6 Watts
$\Delta Tmax (Qc = 0)$	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	6.1 Amps	6.1 Amps	6.0 Amps
Vmax (V @ ΔTmax)	7.8 Volts	8.1 Volts	8.6 Volts
Module Resistance	1.18 Ohms	1.23 Ohms	1.32 Ohms
Max Operating Temperature	80 °C		
Weight	15.0 gram(s)		

\* Specifications reflect thermoelectric coefficients updated March 2020

## **FINISHING OPTIONS**

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
ТА	3.861 ±0.025 mm 0.152 ± 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: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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