APH-127-10-25-S
Peltier cooler module

Data sheet

- Input (Black) + Input (Red)

- Imax [A] 1.9
- Vmax [Vdc] 15.4
- Pc max [W] 17
- ΔTmax [°C] 68
- A [mm] 30
- A1 [mm] 30
- B [mm] 30
- H [mm] 4.5
- L [mm] 100
- Wire AWG n/a

(At hot side temperature Th = 25°C / 298K, under dry N₂).
Pc max = Cooling power at ΔT = 0 and I = Imax.
ΔTmax = Temperature difference at I = Imax and Pc = 0.
Max hot side temperature Th = 80°C for best long term performance.
Max mounting pressure: 1.5MPa.
Wires: UL-style 1569, 105°C (Unstripped).
Peltier cooler module

Data sheet - At hot side temperature 25°C

Heat removed (W) vs Temperature difference (°C)
- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A
- Max COP

Waste heat (W) vs Temperature difference (°C)
- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A

Input Voltage (V) vs Temperature difference (°C)
- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A

COP vs Current (A)
- Delta T = 0°C
- Delta T = 10°C
- Delta T = 20°C
- Delta T = 30°C
- Delta T = 40°C
- Delta T = 50°C
- Delta T = 60°C

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Data sheet - At hot side temperature 50°C

- Heat removed (W) vs. Temperature difference (°C)
  - Different currents (I = 1.80 A to I = 0.50 A)
  - Max COP

- Waste heat (W) vs. Temperature difference (°C)
  - Different currents (I = 1.80 A to I = 0.50 A)

- Input Voltage (V) vs. Temperature difference (°C)
  - Different currents (I = 1.80 A to I = 0.50 A)

- COP vs. Current (A)
  - Different temperature differences (ΔT = 0°C to ΔT = 60°C)
Peltier cooler module

Data sheet - At hot side temperature 75°C

Heat removed (W) vs Temperature difference (°C)

- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A
- Max COP

Waste heat (W) vs Temperature difference (°C)

- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A

Input Voltage (V) vs Temperature difference (°C)

- I = 1.80 A
- I = 1.50 A
- I = 1.25 A
- I = 1.00 A
- I = 0.75 A
- I = 0.50 A

COP vs Current (A)

- Delta T = 0 C
- Delta T = 10 C
- Delta T = 20 C
- Delta T = 30 C
- Delta T = 40 C
- Delta T = 50 C
- Delta T = 60 C