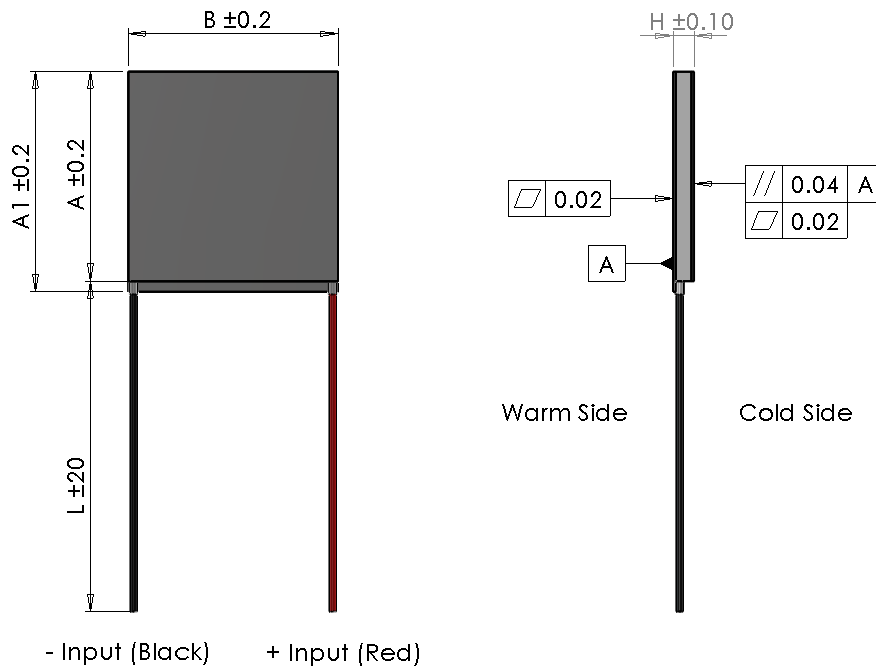


# APHC-12708-S

## Peltier Cooler Module

Data sheet



### Features

- RoHs and Reach 161 compliant
- Solid-state reliability
- Built with high temperature solder with the ability to withstand <200°C assembly processing temperatures for short periods of time
- High integrity nickel diffusion barriers on elements
- High strength for rugged environments
- Porched style for enhanced leadwire strength
- Sealed & lapped for multi-module applications

|                   |       |      |
|-------------------|-------|------|
| $I_{max}$         | [A]   | 7.4  |
| $V_{max}$         | [Vdc] | 14.7 |
| $P_c \text{ max}$ | [W]   | 71   |
| ACR               | [Ω]   | 1.6  |
| $\Delta T_{max}$  | [°C]  | 66   |
| A                 | [mm]  | 40   |
| A1                | [mm]  | 44   |
| B                 | [mm]  | 40   |
| H                 | [mm]  | 3.5  |
| L                 | [mm]  | 100  |
| Wire              | AWG   | 20   |

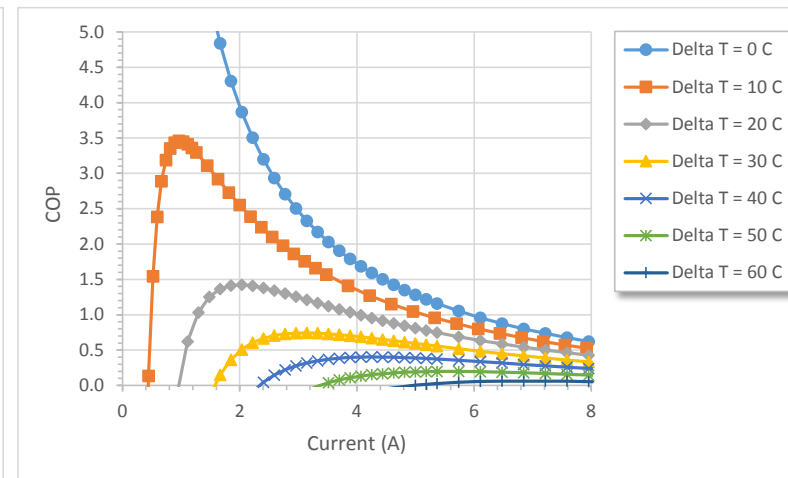
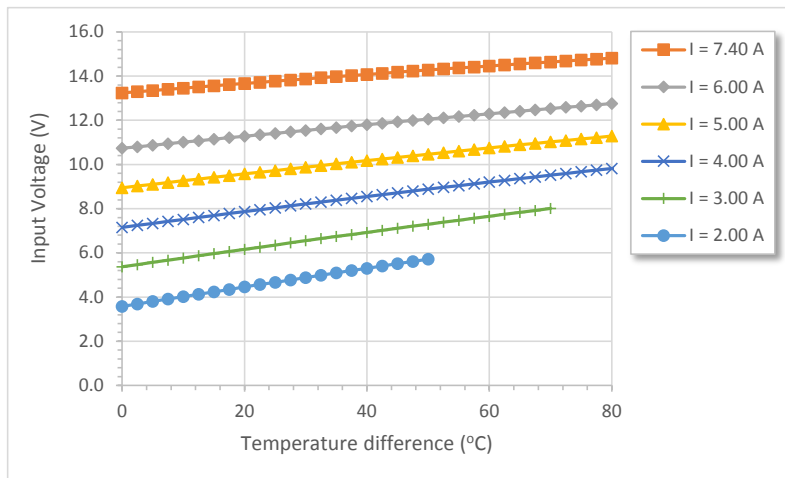
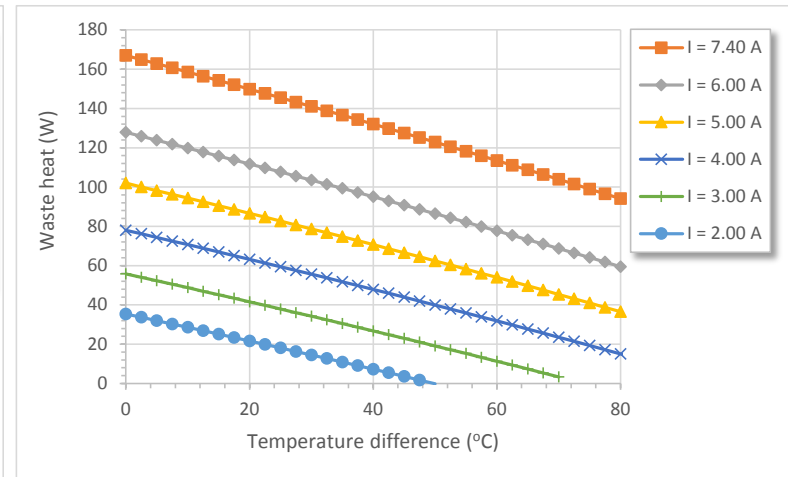
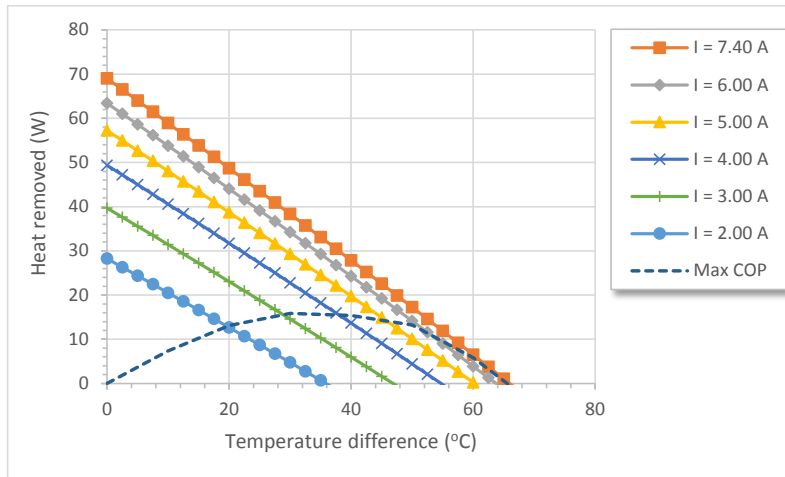
- (At hot side temperature  $T_h = 27^\circ\text{C} / 300\text{K}$ , under dry  $\text{N}_2$ )
- $P_c \text{ max}$  = Cooling power at  $\Delta T = 0$  and  $I = I_{max}$
- $\Delta T_{max}$  = Temperature difference at  $I = I_{max}$  and  $P_c = 0$
- Max hot side temperature  $T_h = 200^\circ\text{C}$  for best long term performance
- Max mounting pressure: 1.5MPa
- Wires: UL-style 1569, 105oC (Unstripped)



# APHC-I2708-S

## Peltier Cooler Module

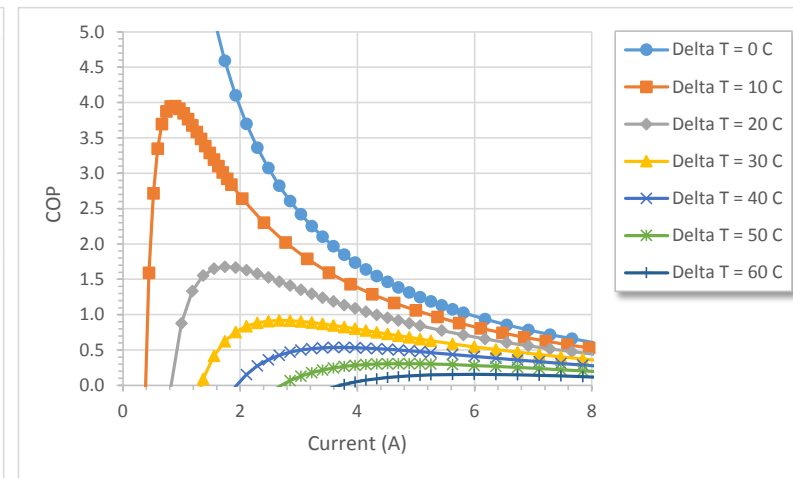
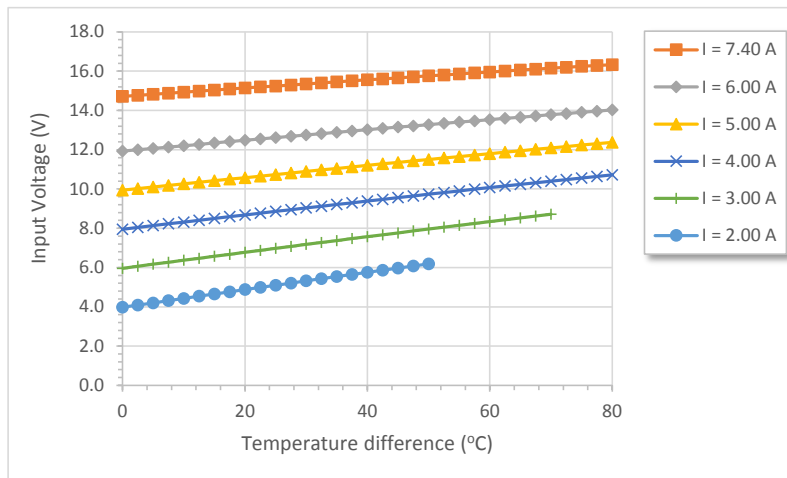
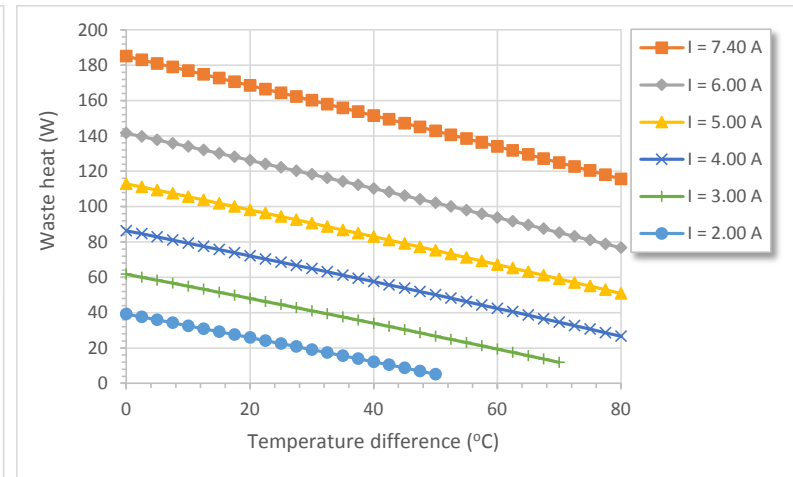
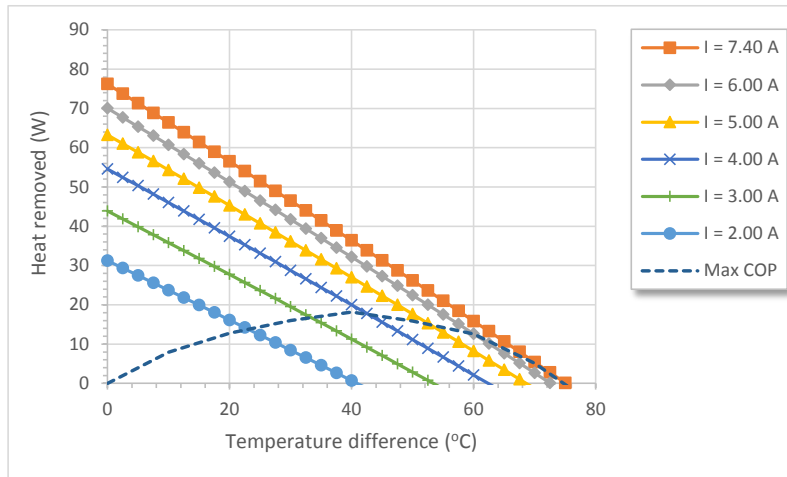
Data sheet - At hot side temperature 25°C



# APHC-I2708-S

## Peltier Cooler Module

### Data sheet - At hot side temperature 50°C



# APHC-I2708-S

## Peltier Cooler Module

### Data sheet - At hot side temperature 75°C

