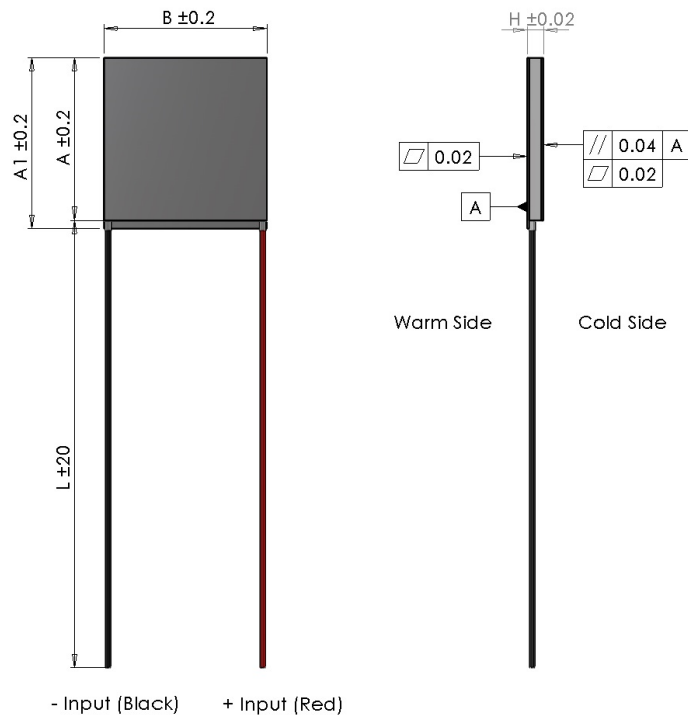


# APHC-12704-S

## Peltier cooler module

### Data sheet



### Features

- RoHs and Reach 161 compliant
- Solid-state reliability
- Built with high temperature solder with the ability to withstand  $< 200^{\circ}\text{C}$  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

$I_{\text{max}}$	[A]	3.7
$V_{\text{max}}$	[Vdc]	14.7
$P_{\text{c max}}$	[W]	36
ACR	[ $\Omega$ ]	3.2
$\Delta T_{\text{max}}$	[ $^{\circ}\text{C}$ ]	66
A	[mm]	30
AI	[mm]	30
B	[mm]	34
H	[mm]	3.33
L	[mm]	100
Wire	AWG	20

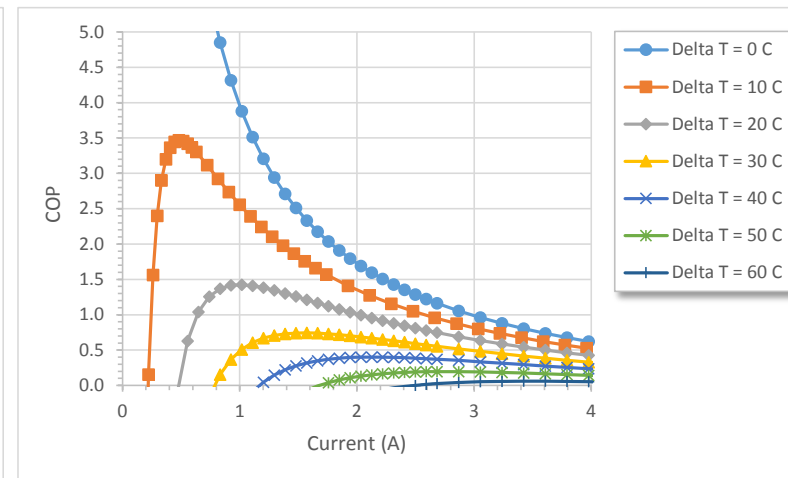
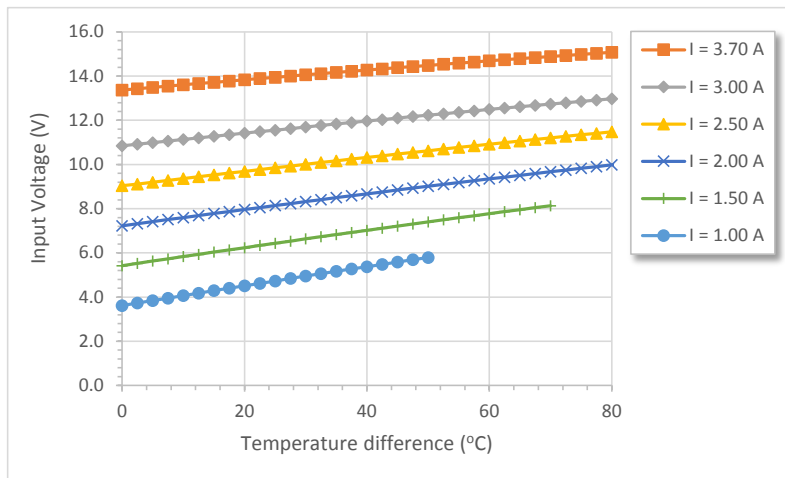
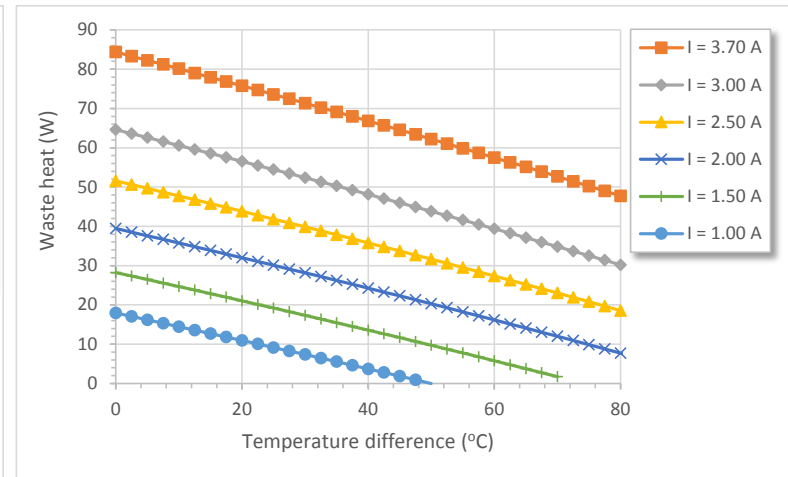
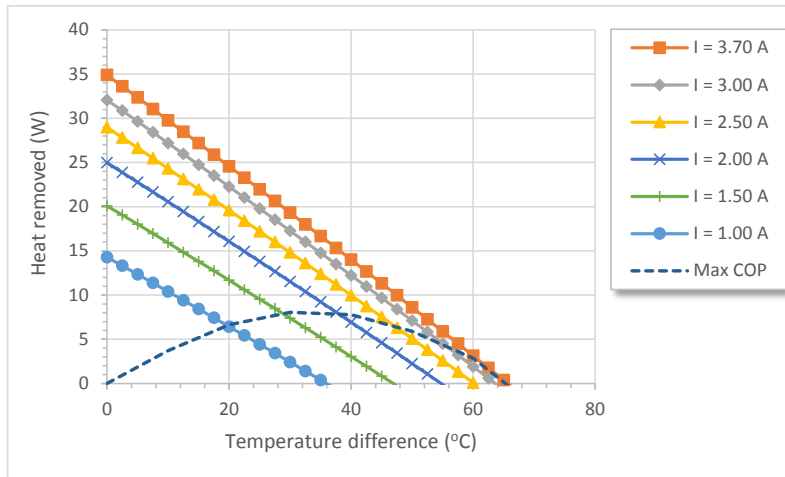
- (At hot side temperature  $T_{\text{h}} = 27^{\circ}\text{C} / 300\text{K}$ , under dry  $\text{N}_2$ )
- $P_{\text{c max}}$  = Cooling power at  $\Delta T = 0$  and  $I = I_{\text{max}}$
- $\Delta T_{\text{max}}$  = Temperature difference at  $I = I_{\text{max}}$  and  $P_{\text{c}} = 0$
- Max hot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



# APHC-I2704-S

## Peltier cooler module

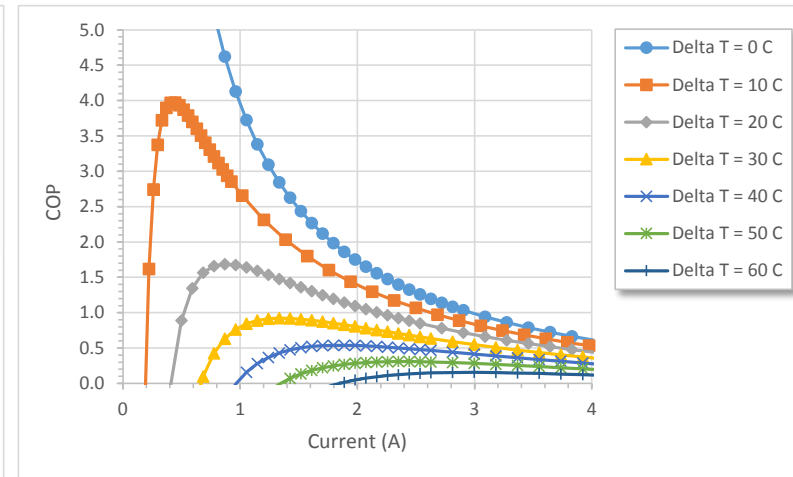
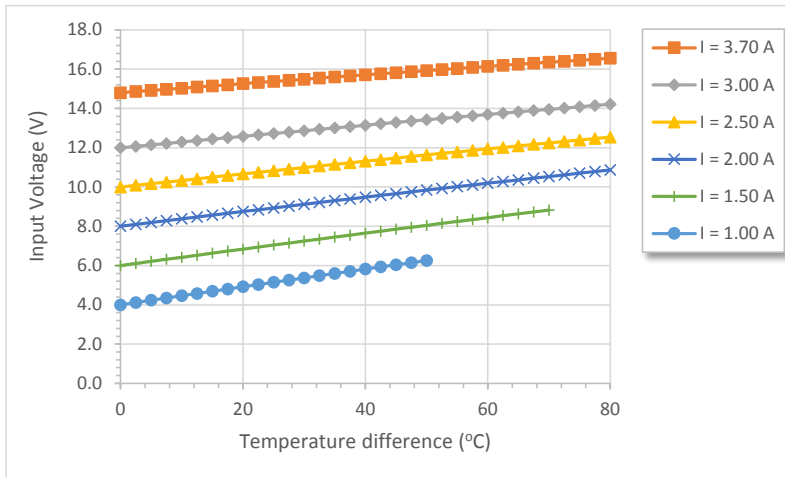
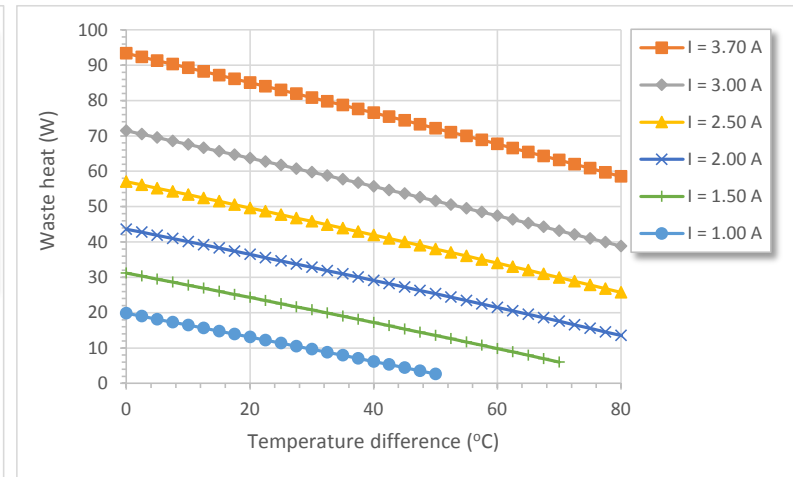
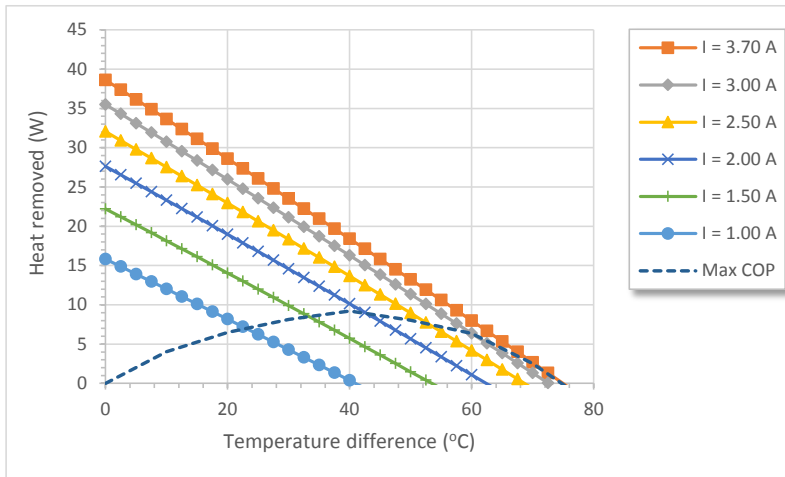
Data sheet - At hot side temperature 25°C



# APHC-12704-S

## Peltier cooler module

Data sheet - At hot side temperature 50°C



# APHC-I2704-S

## Peltier cooler module

Data sheet - At hot side temperature 75°C

