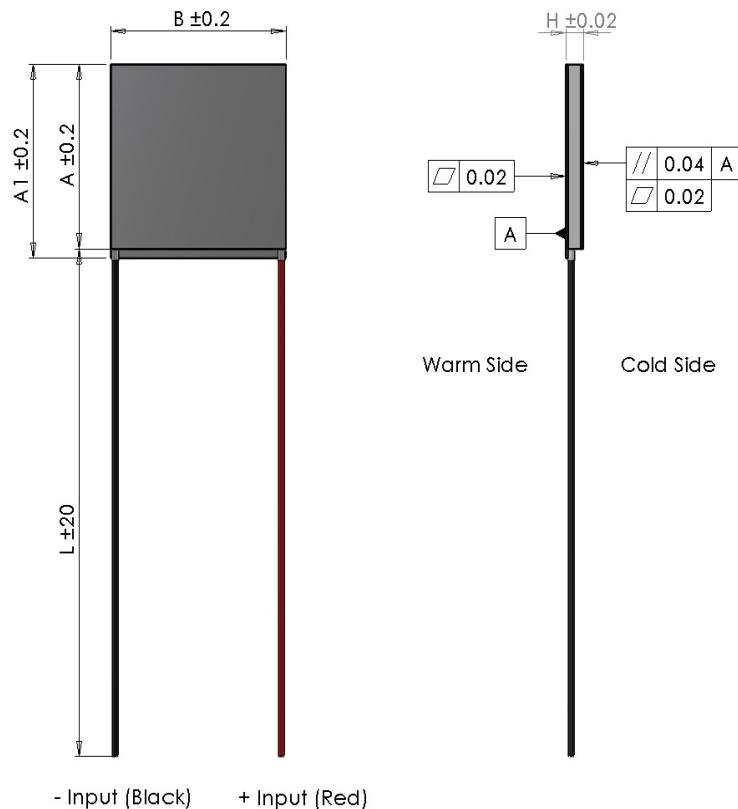


APHC-03502-MT

Peltier cooler module

Data sheet



| | | |
|------------------|-----------------|------|
| I_{max} | [A] | 1.8 |
| V_{max} | [Vdc] | 4.4 |
| $P_c \max$ | [W] | 5.2 |
| ACR | [Ω] | 2.1 |
| ΔT_{max} | [$^{\circ}C$] | 64 |
| A | [mm] | 8.8 |
| AI | [mm] | 8.8 |
| B | [mm] | 11 |
| H | [mm] | 2.16 |
| L | [mm] | 100 |
| Wire | AWG | 28 |

- Pretinned metallised surface with 118 $^{\circ}C$ solder
- Assembled with 138 $^{\circ}C$ solder
- (At hot side temperature $T_h = 25^{\circ}C / 298K$, under dry N_2)
- $P_c \max$ = Cooling power at $\Delta T = 0$ and $I = I_{max}$
- ΔT_{max} = Temperature difference at $I = I_{max}$ and $P_c = 0$
- Max hot side temperature $T_h = 80^{\circ}C$ for best long term performance
- Max mounting pressure: 1.5MPa
- Wires: UL-style 1569, 105oC (Unstripped)



APHC-03502-MT

Peltier cooler module

Features

- Both sides are metallised
- RoHs and Reach 161 compliant
- Solid-state reliability
- High integrity nickel diffusion barriers on elements
- High strength for rugged environments
- Porched style for enhanced leadwire strength
- Sealed & lapped for multi-module applications

Installation

Recommended mounting methods: Bonding with thermal or epoxy or soldering with metallised ceramics.
For further information, please visit adaptivete.com or e-mail info@etdyn.com for technical support.

Operation cautions

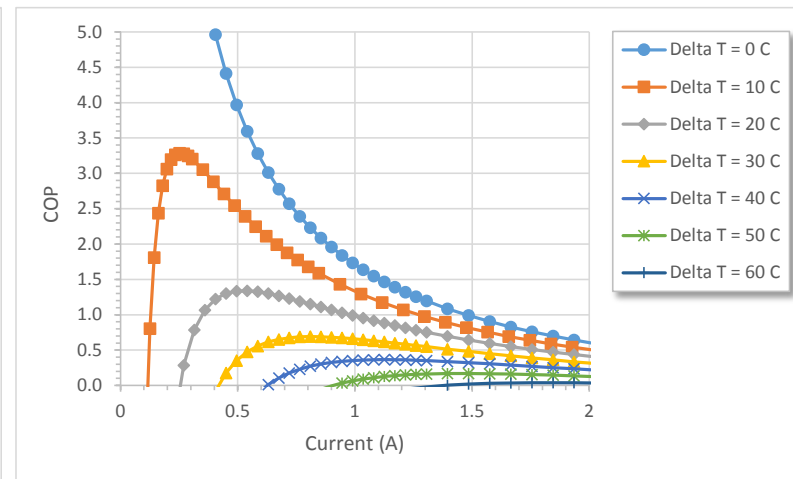
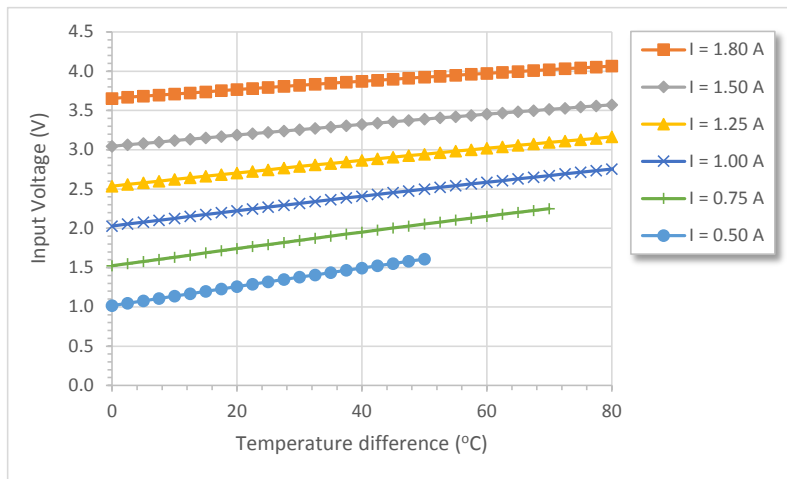
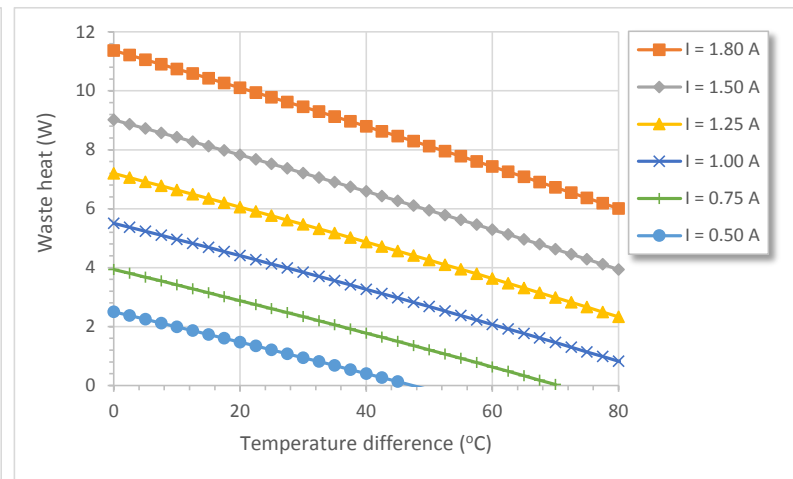
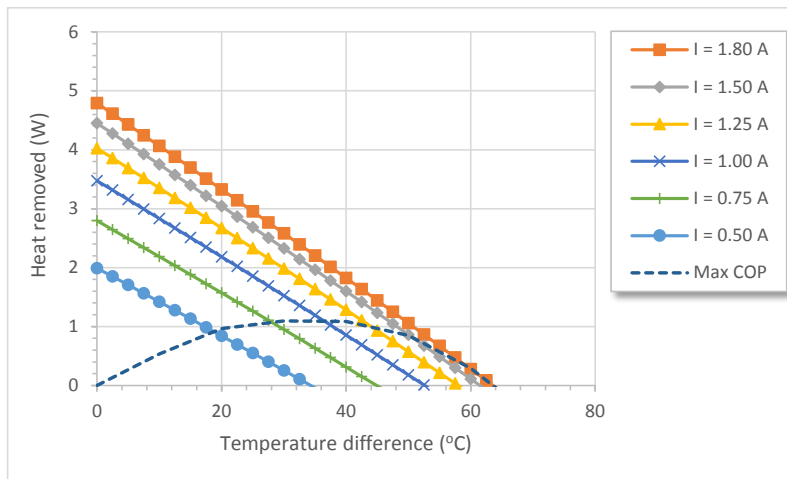
For maximum reliability, storage and operation - a temperature below 85°C in a non-condensing environment is recommended. To minimise thermal stress, use a linear/proportional temperature control or a similar method rather than an on/off method.



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Peltier cooler module

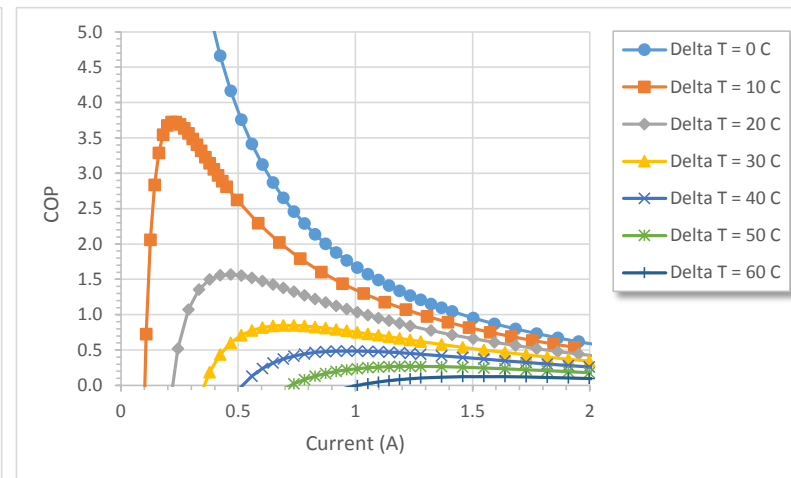
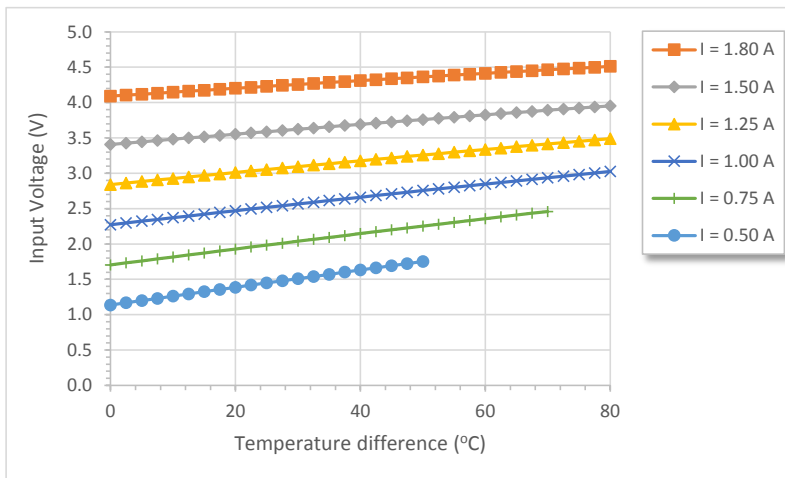
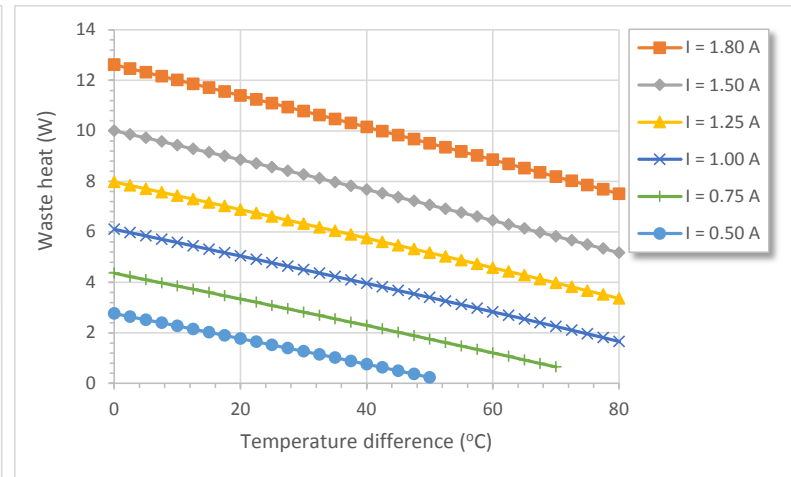
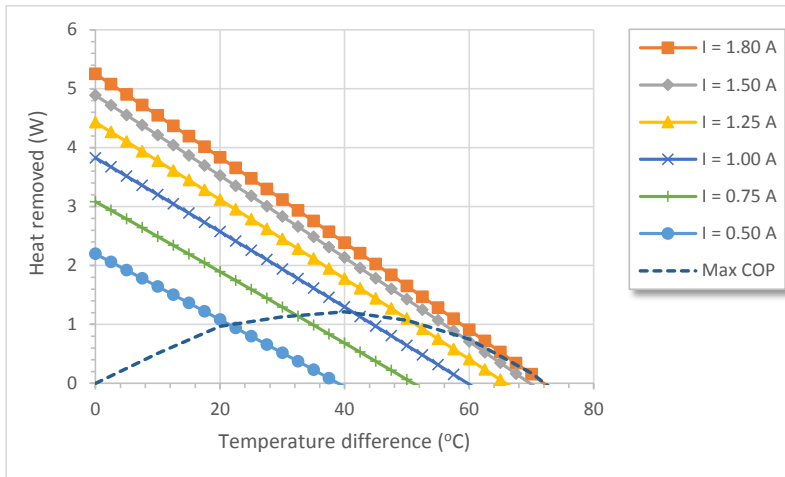
Data sheet - At hot side temperature 25°C



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Peltier cooler module

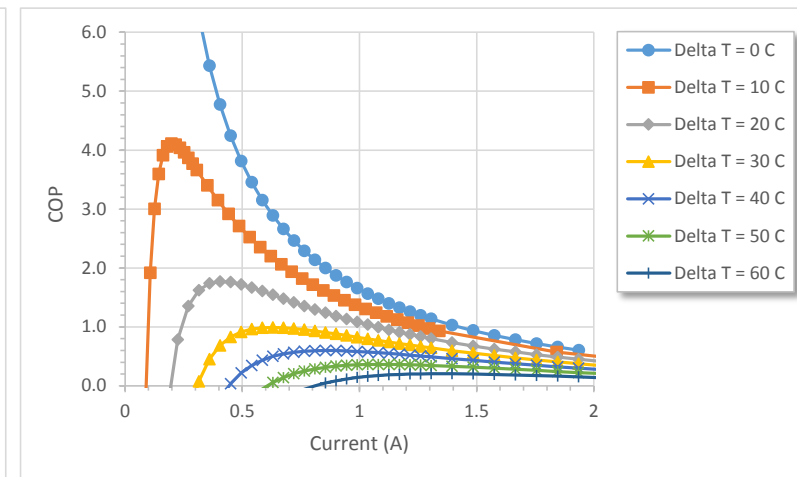
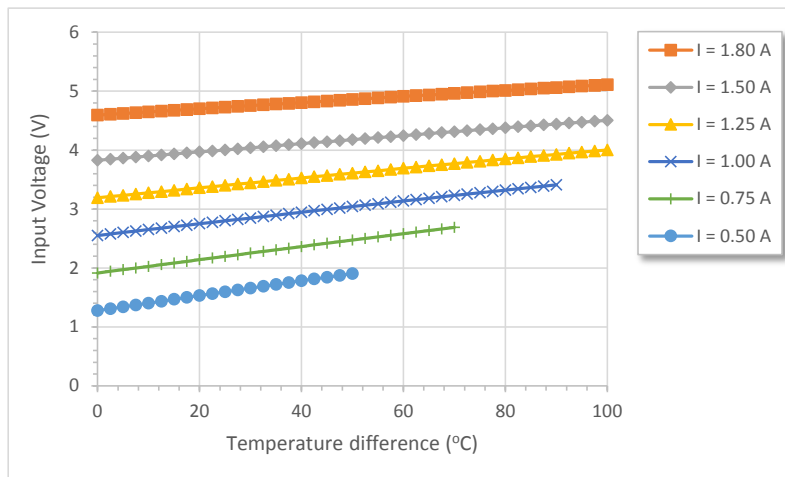
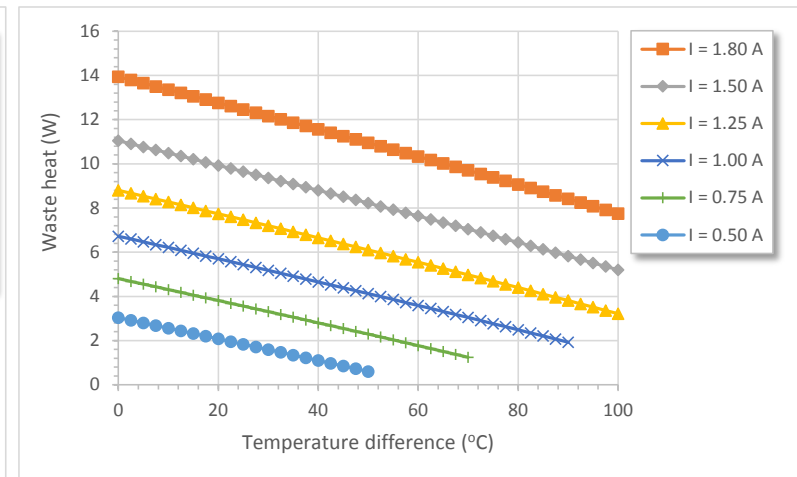
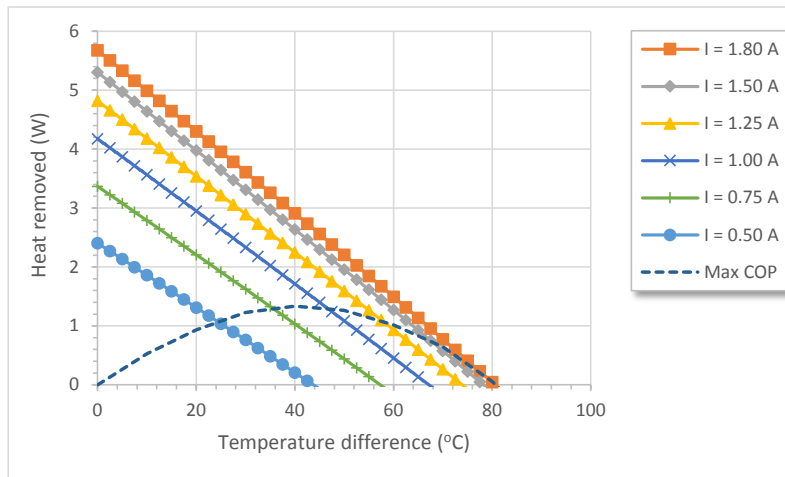
Data sheet - At hot side temperature 50°C



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Peltier cooler module

Data sheet - At hot side temperature 75°C



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