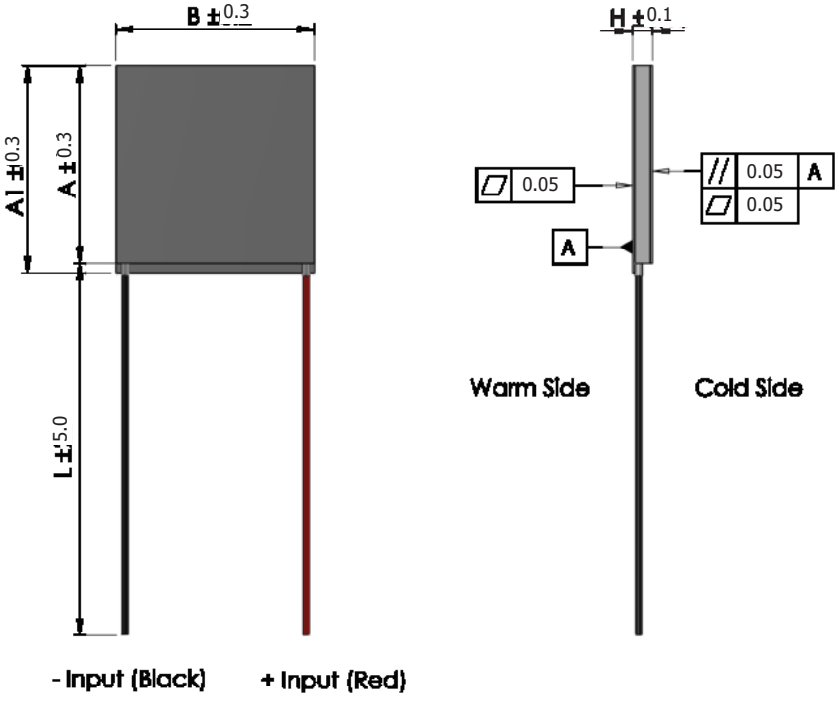
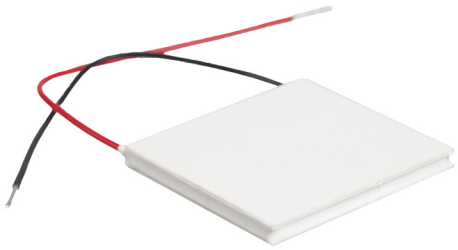
APC-199-14-09-S-F4

CYCLING THERMOELECTRIC MODULE





SILICONE SEALED THERMAL CYCLING MODULE

40x40x3.3mm, 10.5Amp

Features

- ROHS & REACH Compliant
- Precise temperature control
- Solid-state reliability

Applications

Automotive, Industrial,
Telecommunications, Medical, Aerospace

CHARACTERISTICS			
Th	[°C]	27	50
DeltaT	[°C]	68	75
Vmax	[V]	24.1	24.1
Imax	[A]	10.5	10.5
Qcmax	[W]	148	163
AC Resistance	[Ω]	1.83 ± 10%	
Solder Melting Point	[°C]	235	
Compression Strength	[MPa]	1	
A	[mm]	40	
A1	[mm]	40	
B	[mm]	40	
H	[mm]	3.3	
L	[mm]	100	
Flatness/Parallelism	[mm]	0.05 / 0.05	

- (At hot side temperature Th = 25°C / 298K, under dry N_2)
- Pc max = Cooling power at ΔT = 0 and I = Imax
- ΔTmax = Temperature difference at I = Imax and Pc = 0
- Max hot side temperature Th = 90°C for best long term performance
- Wires: UL rated wire to 105°C / AWG 20

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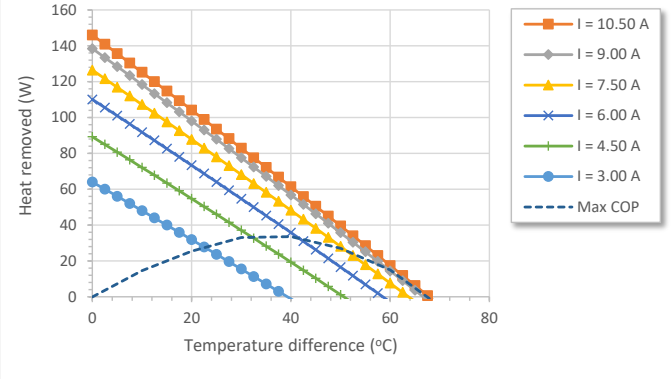
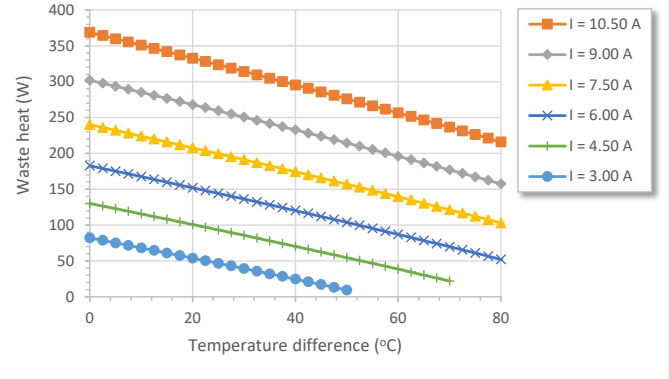
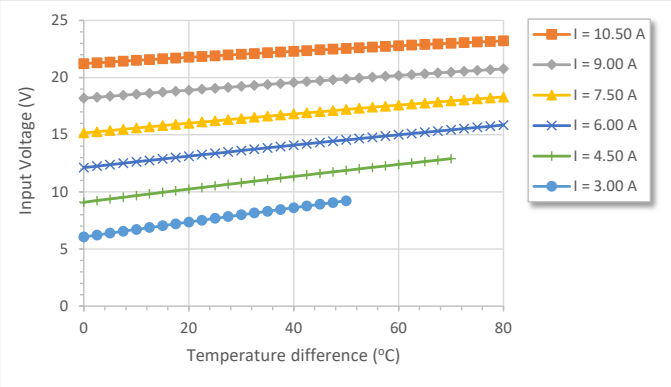
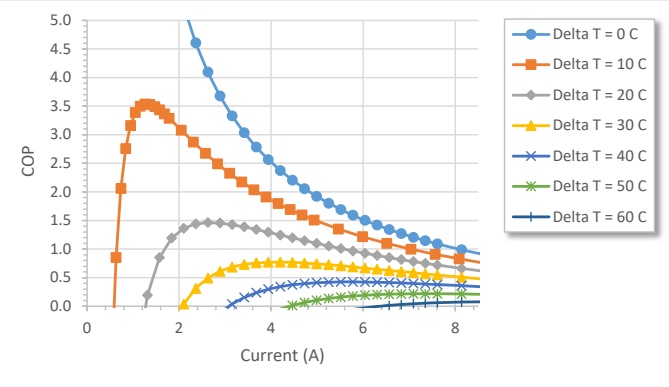
Hot side temperature 27 degrees C

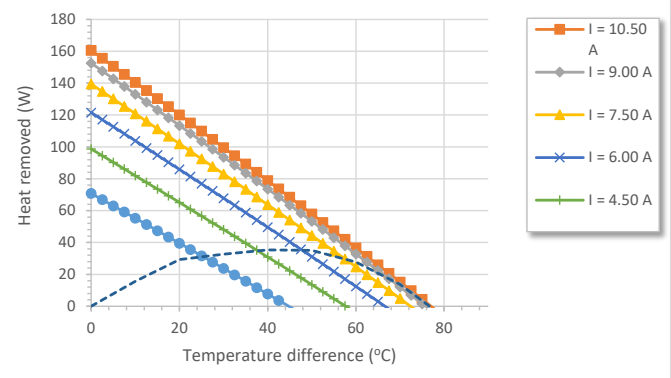


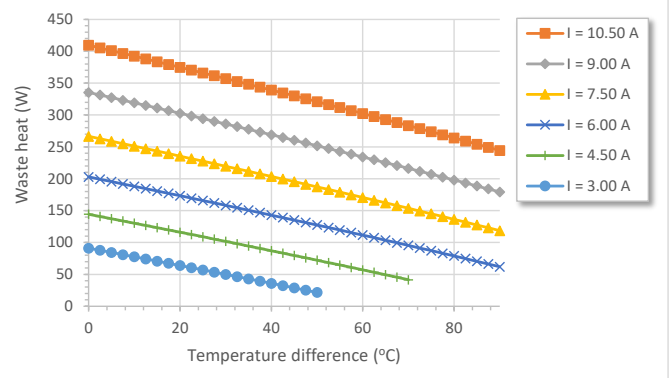


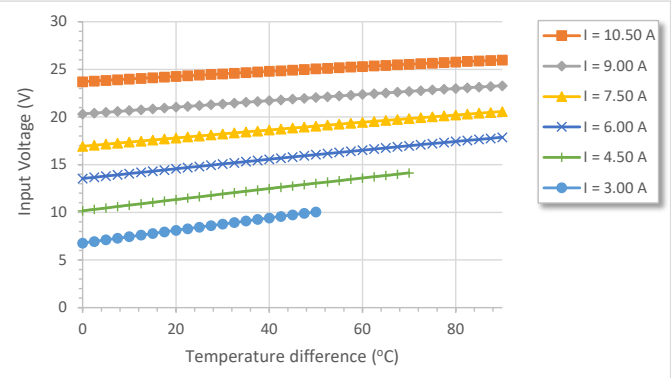


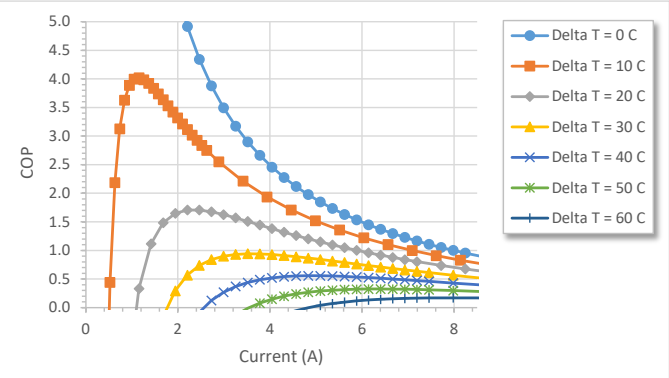


Hot side temperature 50 degrees C









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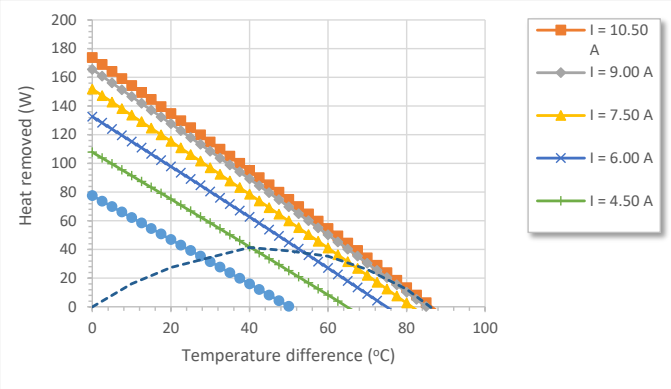
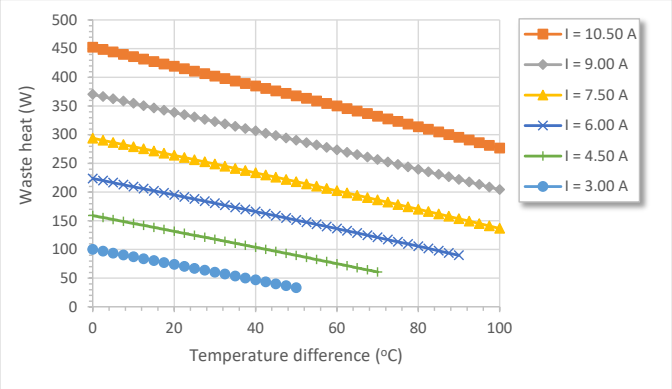
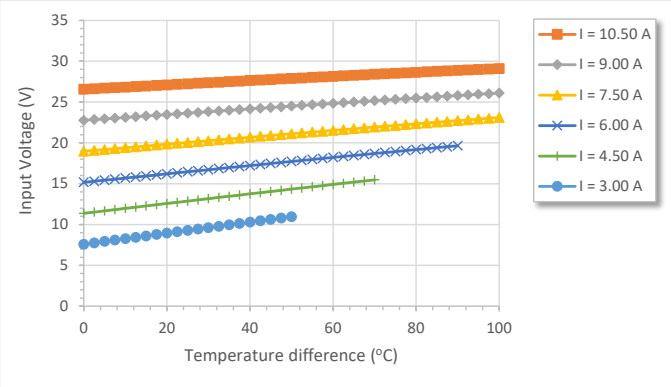
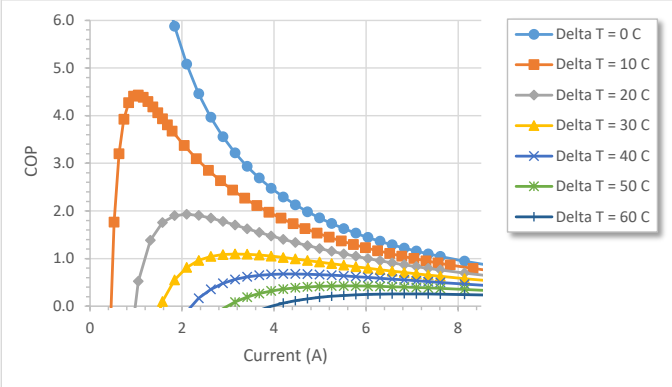
Hot side temperature 75 degrees C









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