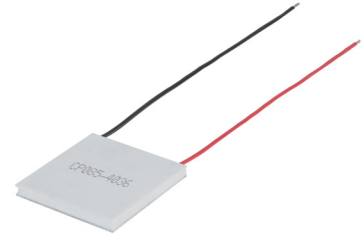


**MODEL:** CP085-4036 | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- silicon sealed
- wide ΔT max
- precise temperature control
- maximum hot side temperature of 195°C
- solid state construction

**SPECIFICATIONS**

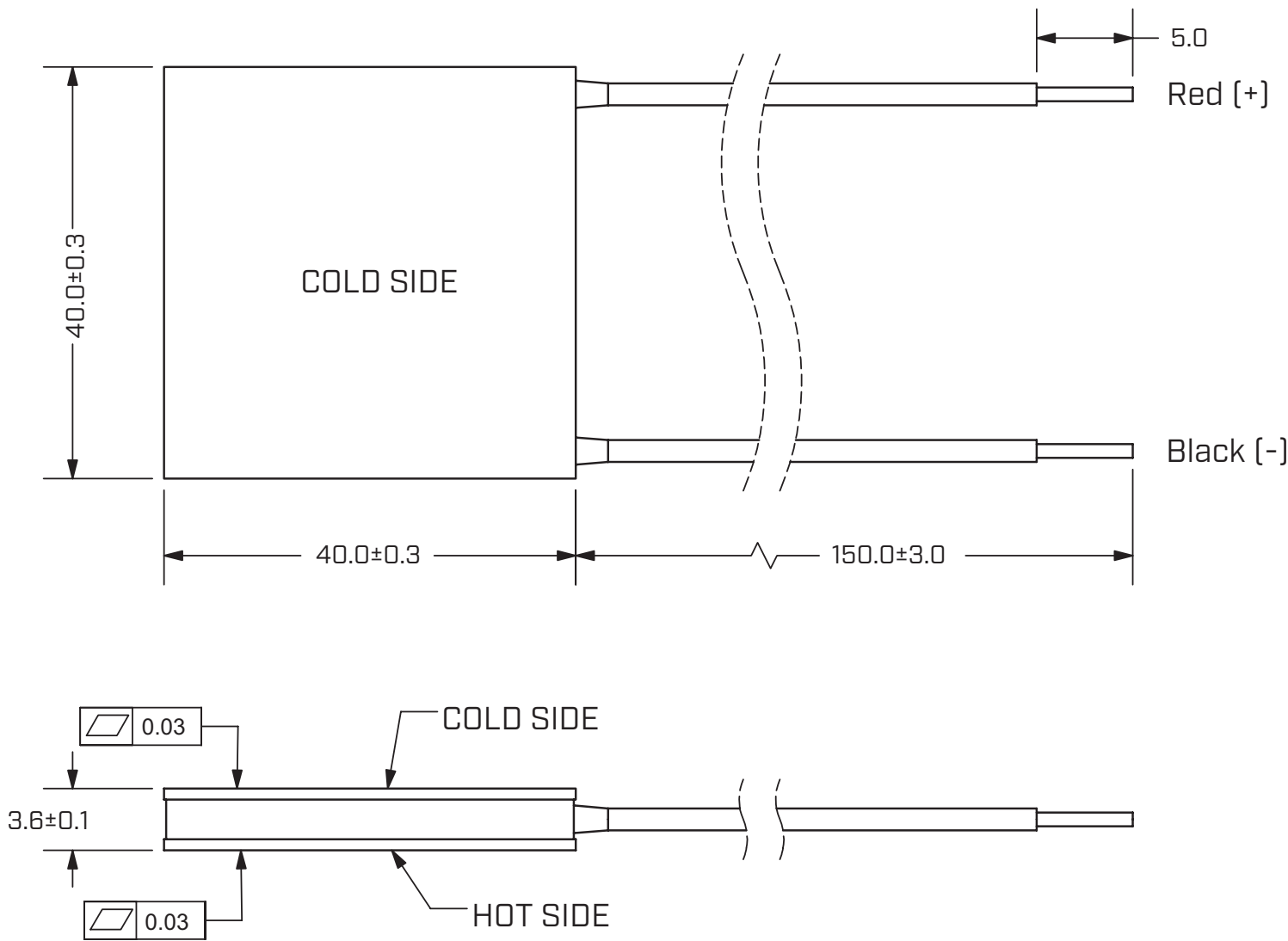
parameter	conditions/description	min	typ	max	units
input voltage ¹	Th = 27°C			25	V
	Th = 50°C			26.9	V
input current ²				8.5	A
internal resistance ³	Th = 27°C		2.25		Ω
	Th = 50°C		2.49		Ω
Qmax ⁴	Th = 27°C			133.4	W
	Th = 50°C			145.8	W
ΔT max ⁵	Th = 27°C			70	°C
	Th = 50°C			79	°C
solder melting temperature	connection between thermoelectric pairs	240			°C
hot side plate				195	°C
cold side plate		-60			°C
assembly compression			0.49		MPa
RoHS	yes				

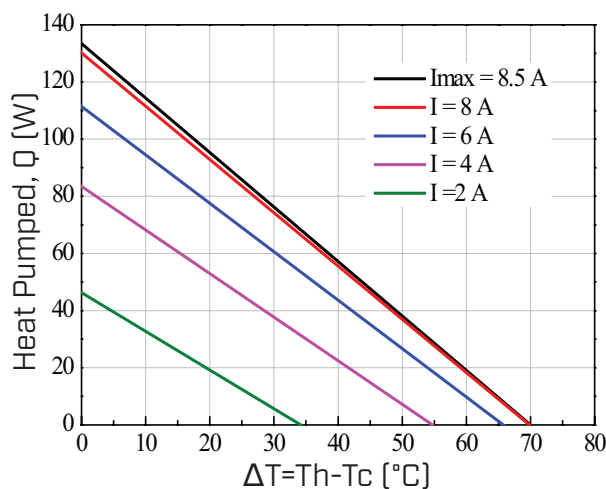
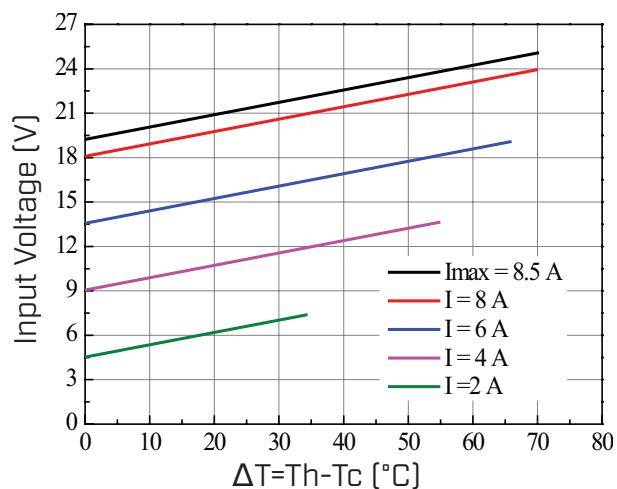
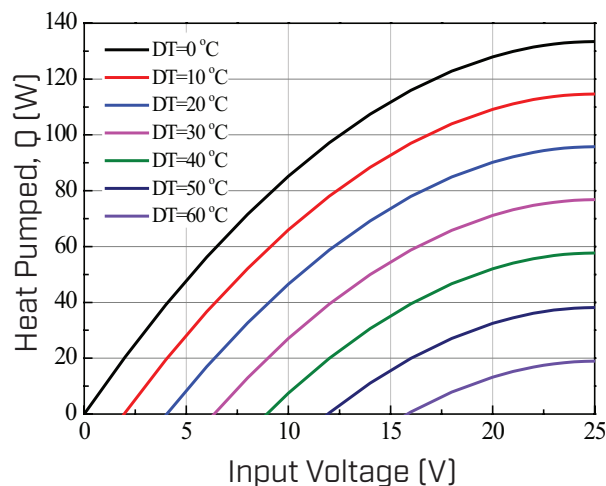
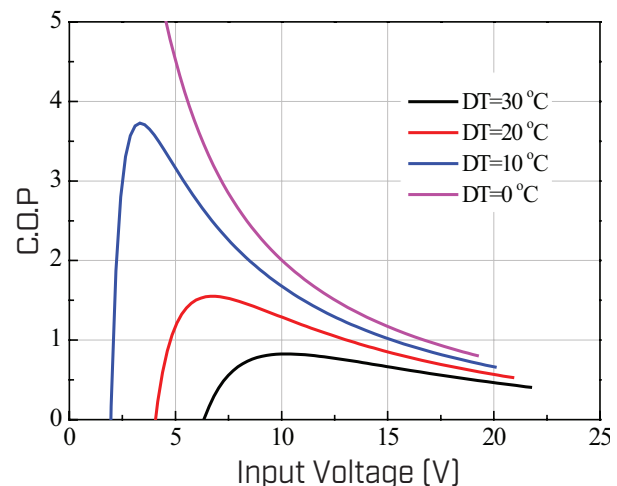
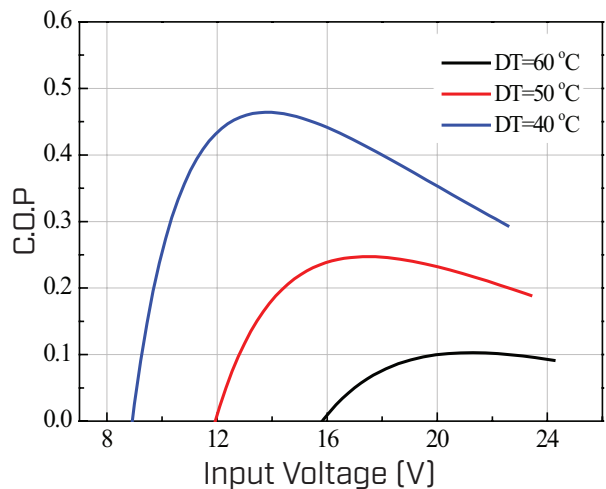
Notes: 1. Maximum voltage at ΔT max and $T_h=27^\circ\text{C}$
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T=0^\circ\text{C}$
5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q=0$ W (ΔT max measured in a vacuum at 1.3 Pa)
6. Tolerance for all thermal and electrical parameters is $\pm 10\%$.

MECHANICAL DRAWING

units: mm

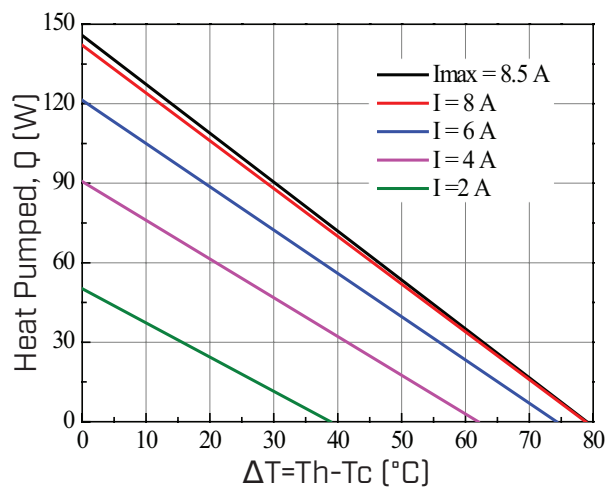
	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	UL1726 18 AWG	tin
sealer	704 silicone sealant (between cold and hot side plates)	
marking	P/N printed on cold side surface	



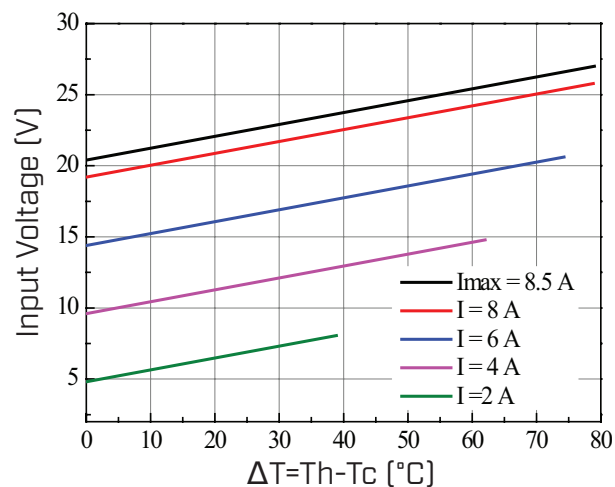
PERFORMANCE (Th=27°C)**Heat Pumped, Q Vs. ΔT** **Input Voltage, V Vs. ΔT** **Heat Pumped, Q Vs. Input Voltage, V****COP Vs. Input Voltage, V ($\Delta T = 0 \sim 30$ °C)****COP Vs. Input Voltage, V ($\Delta T = 40 \sim 60$ °C)**

PERFORMANCE (Th=50°C)

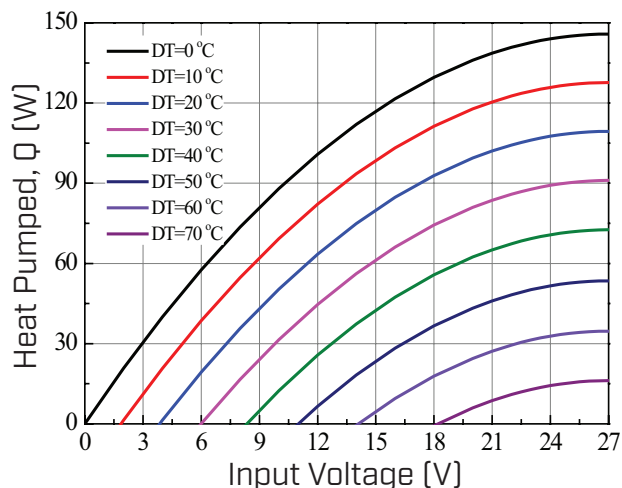
Heat Pumped, Q Vs. ΔT



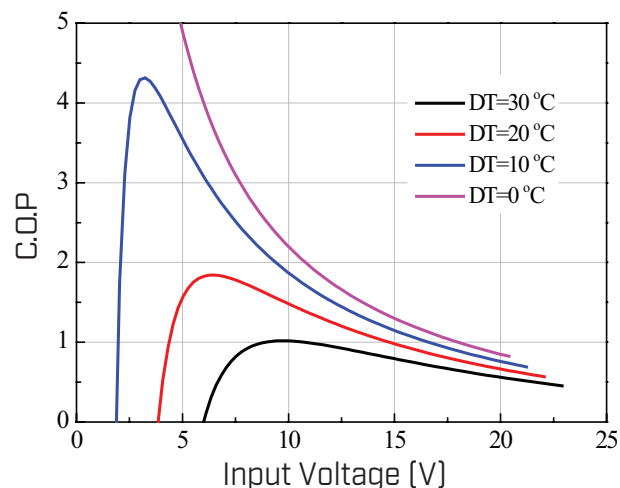
Input Voltage, V Vs. ΔT



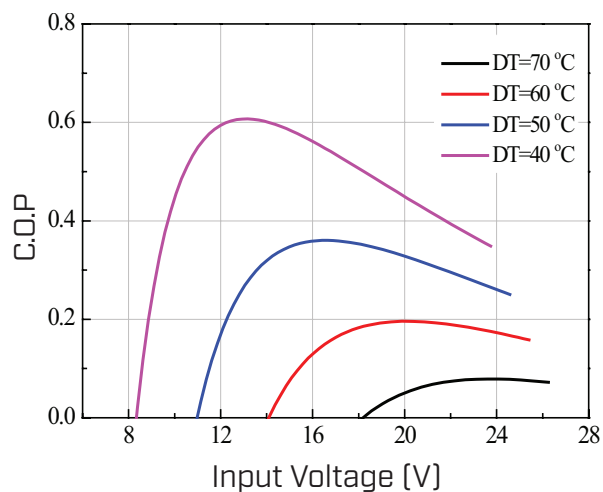
Heat Pumped, Q Vs. Input Voltage, V



COP Vs. Input Voltage, V ($\Delta T = 0 \sim 30^\circ\text{C}$)



COP Vs. Input Voltage, V ($\Delta T = 40 \sim 70^\circ\text{C}$)



REVISION HISTORY

rev.	description	date
1.0	initial release	03/28/2025

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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