

**MODEL:** CP140-5043-A | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- arcTEC™ structure
- wide ΔT max
- precise temperature control
- low profile
- solid state construction
- silicone sealed option available

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input voltage ¹	Th = 27°C			16.80	V
	Th = 50°C			18.06	V
input current ²				14.0	A
internal resistance ³	Th = 27°C		0.92		Ω
	Th = 50°C		1.02		Ω
Qmax ⁴	Th = 27°C			146	W
	Th = 50°C			164	W
ΔT max ⁵	Th = 27°C			74	°C
	Th = 50°C			83	°C
solder melting temperature	connection between thermoelectric pairs	240			°C
hot side plate				195	°C
cold side plate		-60			°C
assembly compression				0.34	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 $\pm 10\%$.

PART NUMBER KEY**CP140 - 5043 - A X**

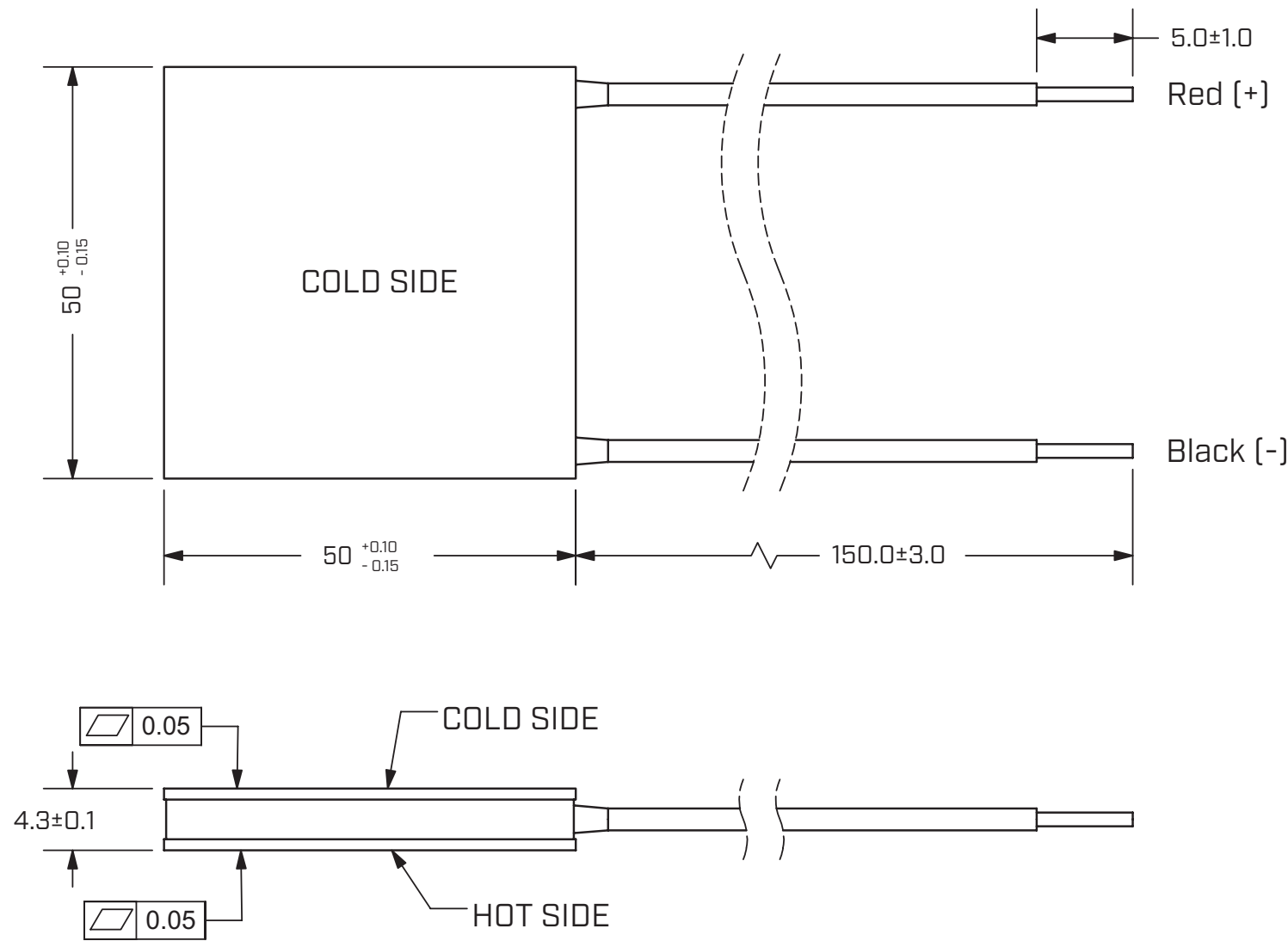
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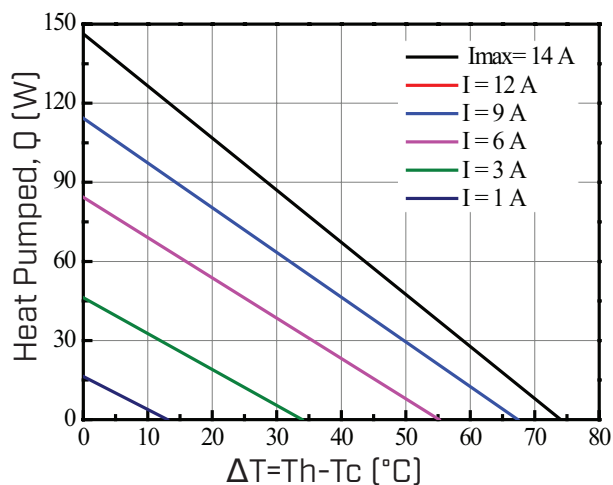
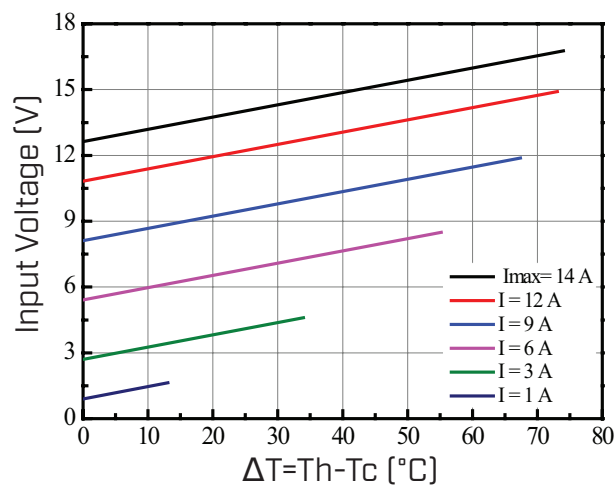
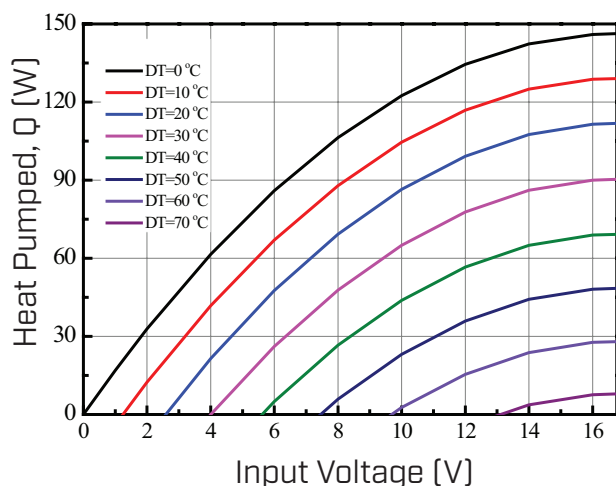
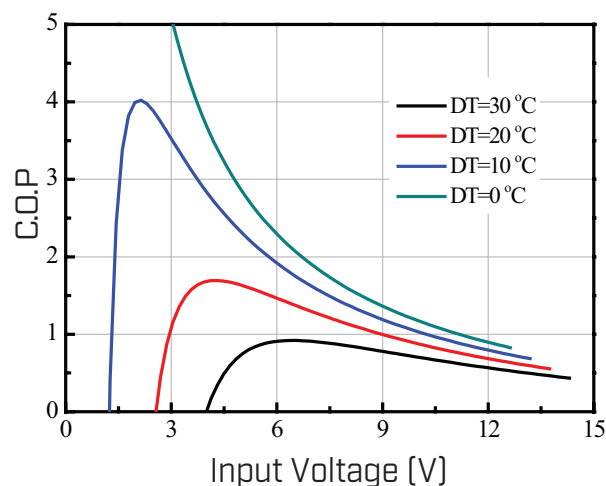
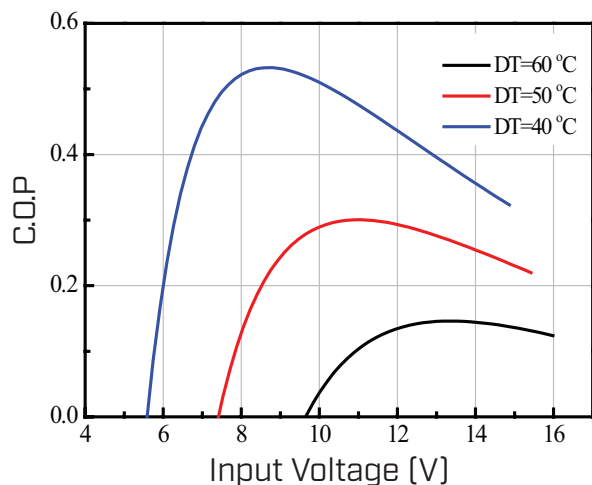
Silicone Sealed:
"blank" = not included
S = with silicone sealant

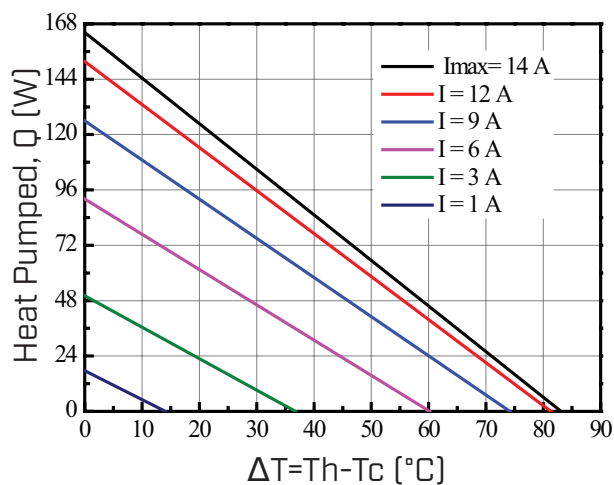
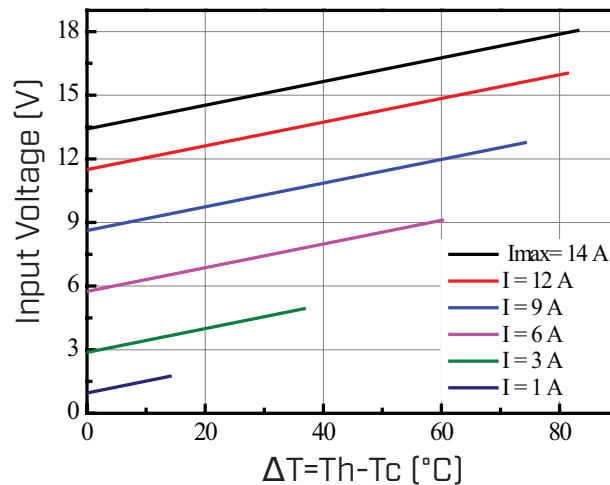
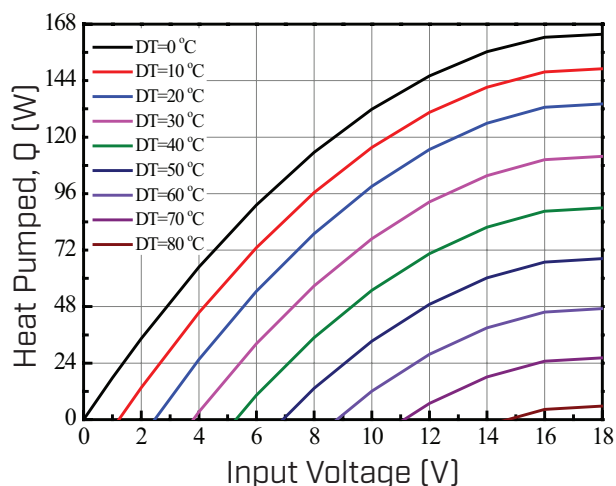
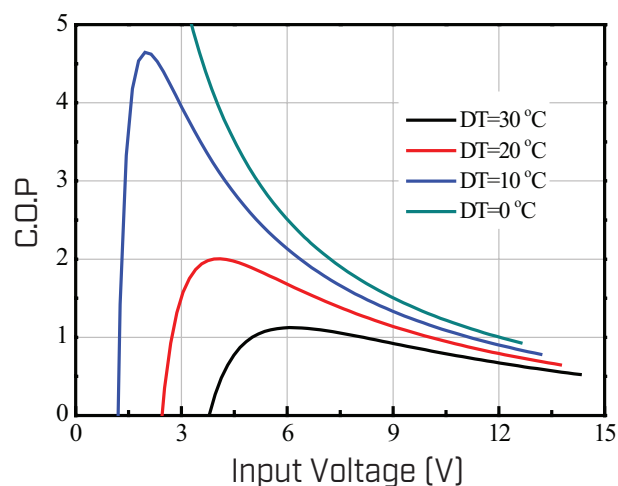
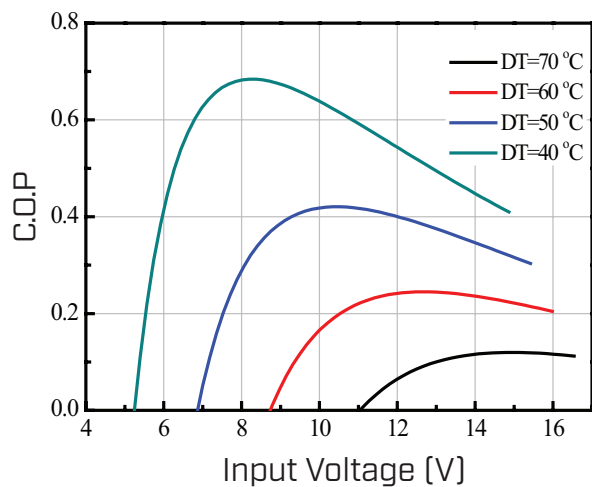
MECHANICAL DRAWING

units: mm

	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads	UL1726 18 AWG	tin
sealer (optional)	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 ($\Delta T=0\sim30^\circ\text{C}$)****COP Vs. Input Voltage, V ($\Delta T=40\sim60^\circ\text{C}$)**

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	07/24/2026

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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