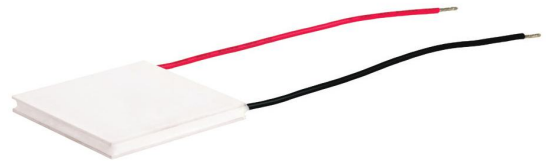


**SERIES:** CP85 | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- arcTEC™ structure on select models
- solid state device
- precise temperature control
- quiet operation

**MODEL**

MODEL	input voltage <sup>1</sup> max [Vdc]	input current <sup>2</sup> max [A]	internal resistance <sup>3</sup> typ [Ω±10%]	output Qmax <sup>4</sup>		output ΔTmax <sup>5</sup>	
				T <sub>h</sub> =27°C [W]	T <sub>h</sub> =50°C [W]	T <sub>h</sub> =27°C [°C]	T <sub>h</sub> =50°C [°C]
CP85204035	7.6	8.5	0.75	37.4	41.8	68	75
CP85301535	4.2	8.5	0.41	20.0	22.3	68	75
CP85435 <sup>6</sup>	24.1	8.5	2.28	118	130	68	75
CP85138	2.1	8.5	0.20	10.0	11.1	68	75
CP85238	3.8	8.5	0.40	18.0	20.1	68	75
CP85338	8.6	8.5	0.90	42.0	46.9	68	75
CP85438	15.4	8.5	1.50	75.0	83.9	68	75

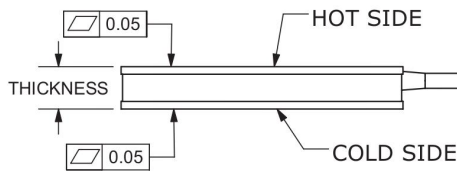
Notes: 1. Maximum voltage at ΔT max and T<sub>h</sub>=27°C  
2. Maximum current to achieve ΔT max  
3. Measured by AC 4-terminal method at 25°C  
4. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and ΔT=0°C  
5. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)  
6. Designed with arcTEC™ structure

## SPECIFICATIONS

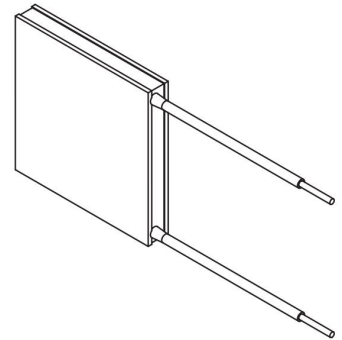
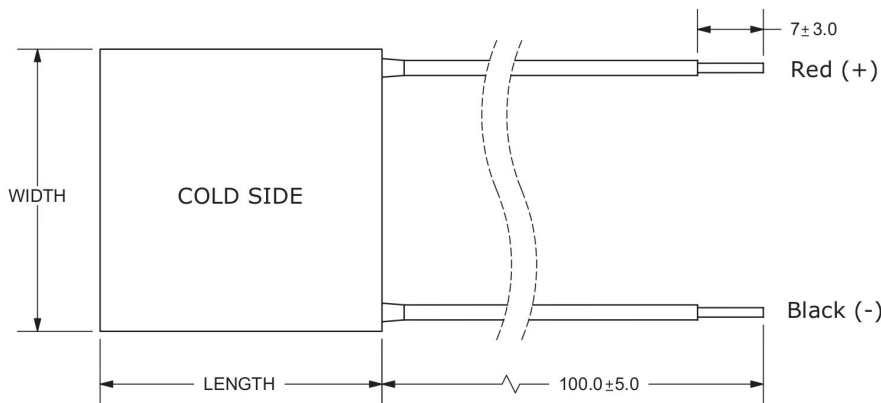
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	yes				

## MECHANICAL DRAWING

units: mm

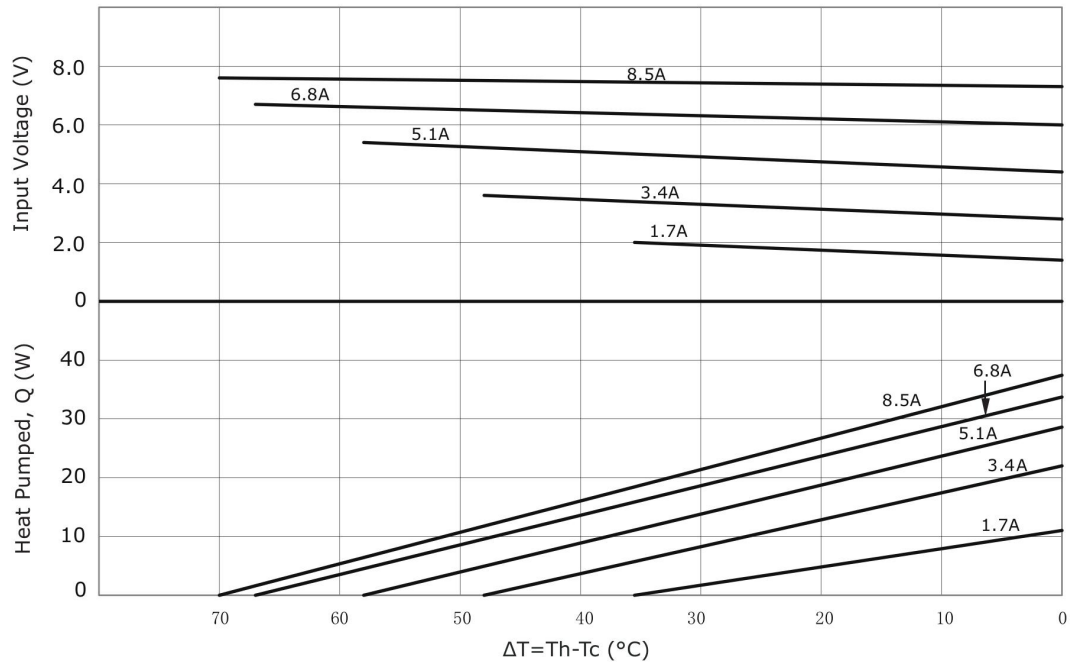


	MATERIAL	PLATING
ceramic plate	96% $Al_2O_3$	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

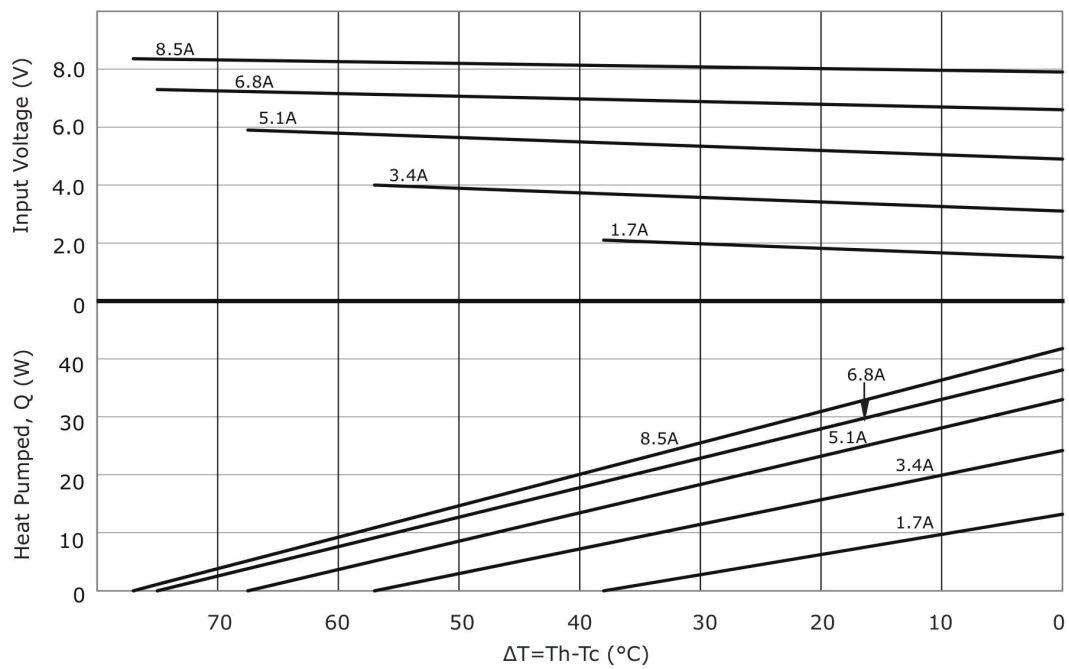


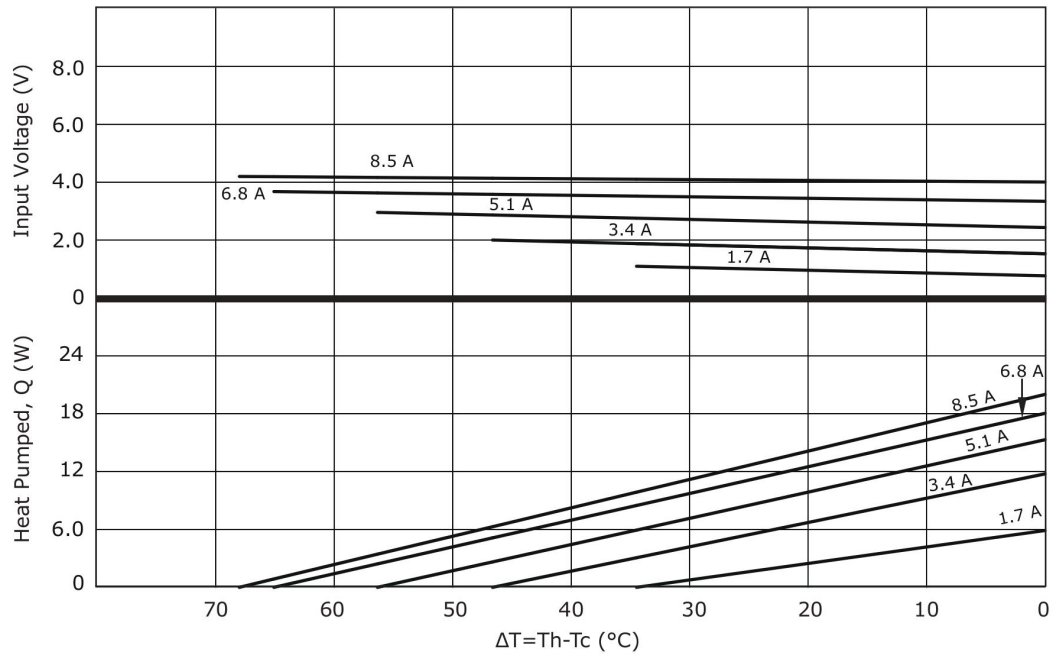
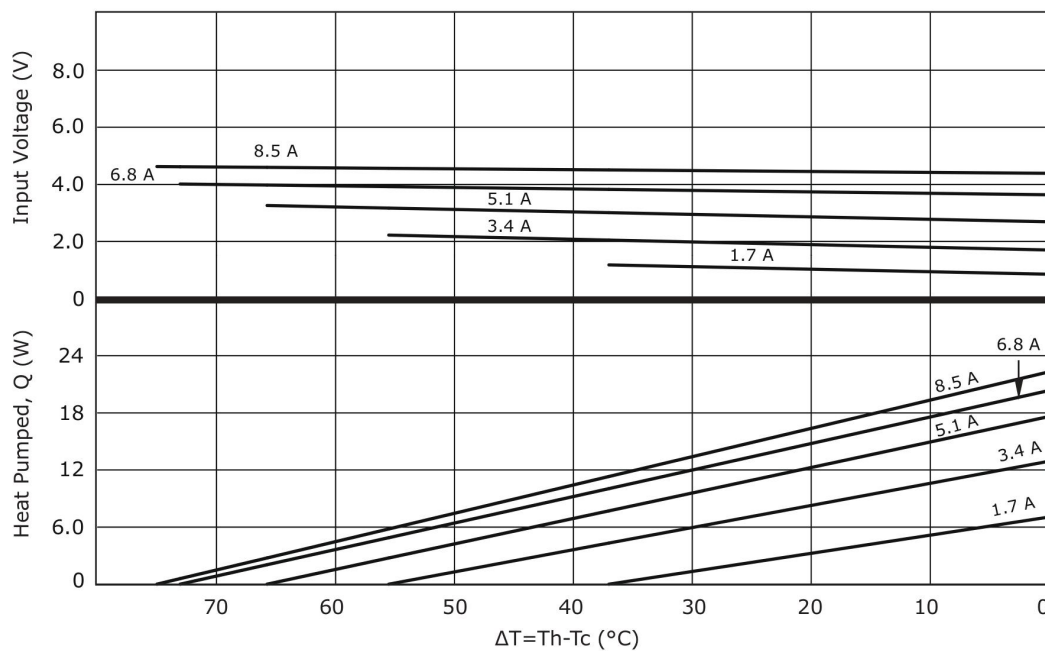
MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP85204035	20 ± 0.3	40 ± 0.3	3.5 ± 0.1
CP85301535	30 ± 0.3	15 ± 0.3	3.5 ± 0.1
CP85435	40 ± 0.3	40 ± 0.3	3.5 ± 0.1
CP85138	15 ± 0.3	15 ± 0.3	3.74 ± 0.1
CP85238	20 ± 0.3	20 ± 0.3	3.74 ± 0.1
CP85338	30 ± 0.3	30 ± 0.3	3.74 ± 0.1
CP85438	40 ± 0.3	40 ± 0.3	3.74 ± 0.1

## CP85204035 PERFORMANCE (Th=27°C)

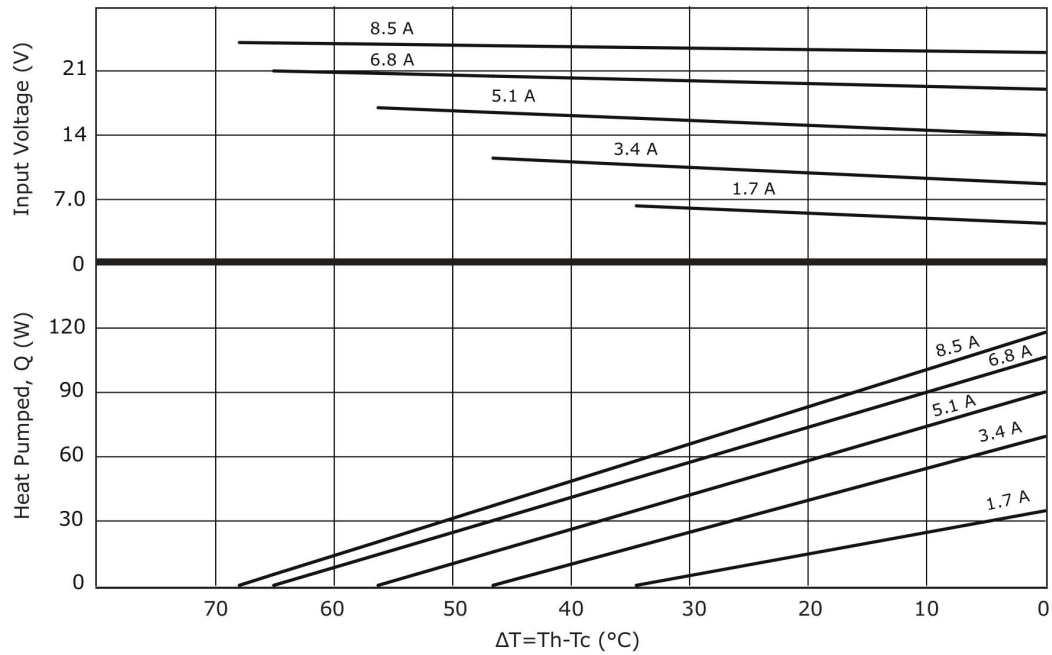


## CP85204035 PERFORMANCE (Th=50°C)



**CP85301535 PERFORMANCE (Th=27°C)****CP85301535 PERFORMANCE (Th=50°C)**

## CP85435 PERFORMANCE (Th=27°C)



## CP85435 PERFORMANCE (Th=50°C)

