

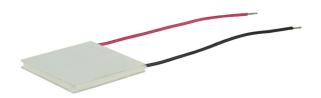
date 09/08/2016

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DESCRIPTION: PELTIER MODULE SERIES: CP85

FEATURES

- solid state device
- precise temperature control
- quiet operation





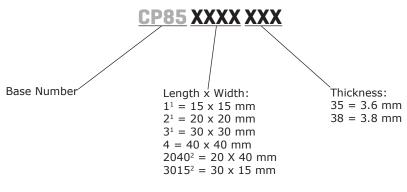
MODEL	input voltage¹	input current² max (A)	output Qmax³		output ∆Tmax⁴	
	max (Vdc)		T _h =27°C (W)	T _h =50°C (W)	T _h = 27°C (°C)	T _h =50°C (°C)
CP85204035	7.6	8.5	37.4	41.8	68	75
CP85301535	4.2	8.5	20.0	22.3	68	75
CP85435	24.1	8.5	118	130	68	75
CP85138	2.1	8.5	10.0	11.1	68	75
CP85238	3.8	8.5	18.0	20.1	68	75
CP85338	8.6	8.5	42.0	46.9	68	75
CP85438	15.4	8.5	75.0	83.9	68	75

Notes:

- 1. Maximum voltage at ΔT max and T_h =27°C

- 2. Maximum current to achieve ΔT max 3. Maximum heat absorbed at cold side occurs at $I_{max'}$, $V_{max'}$ and ΔT =0°C 4. Maximum temperature difference occurs at $I_{max'}$, $V_{max'}$ and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY



1. Only available in 3.8 mm thickness Notes:

2. Only available in 3.6 mm thickness

SPECIFICATIONS

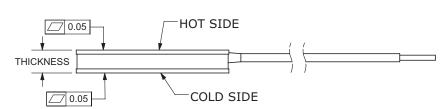
parameter	conditions/description	min	typ	max	units
	CP85204035	0.675	0.75	0.825	Ω
	CP85301535	0.369	0.41	0.451	Ω
	CP85435	2.052	2.28	2.508	Ω
internal resistance ¹	CP85138	0.18	0.20	0.22	Ω
	CP85238	0.36	0.40	0.44	Ω
	CP85338	0.81	0.90	0.99	Ω
	CP85438	1.35	1.50	1.65	Ω
solder melting temperature	connection between thermoelectric pairs	138			°C
	3.8 mm models			0.98	MPa
assembly compression	3.6 mm models		1	MPa	
hot side plate				80	°C
RoHS	2011/65/EU				

Note:

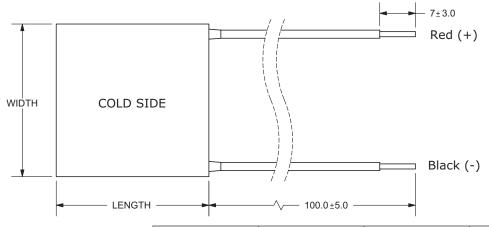
1. Measured by AC 4-terminal method at 25°C

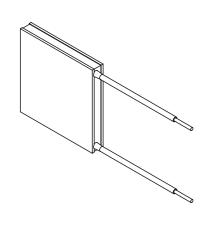
MECHANICAL DRAWING

units: mm



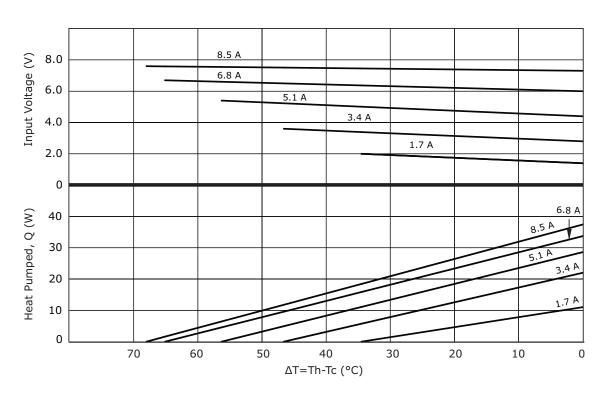
	MATERIAL	PLATING	
ceramic plate	96% AL ₂ O ₃		
wire leads	20 AWG	tin	
sealer	silicon rubber 703 RTV (between cold and hot side plates)		
joint cover	silicon rubber 703 RTV		
marking	P/N & S/N printed on cold side surface		



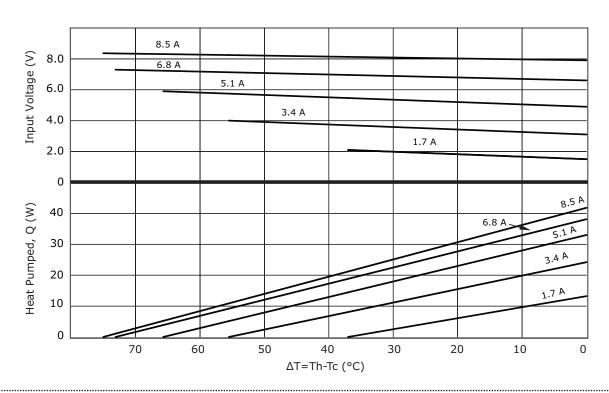


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP85204035	20 ±0.3	40 ±0.3	3.6 ±0.1
CP85301535	30 ±0.3	15 ±0.3	3.6 ±0.1
CP85435	40 ±0.3	40 ±0.3	3.6 ±0.1
CP85138	15 ±0.3	15 ±0.3	3.8 ±0.1
CP85238	20 ±0.3	20 ±0.3	3.8 ±0.1
CP85338	30 ±0.3	30 ±0.3	3.8 ±0.1
CP85438	40 ±0.3	40 ±0.3	3.8 ±0.1

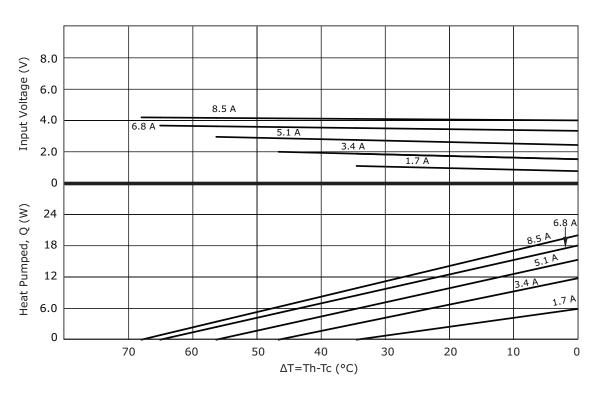
CP85204035 PERFORMANCE (Th=27°C)



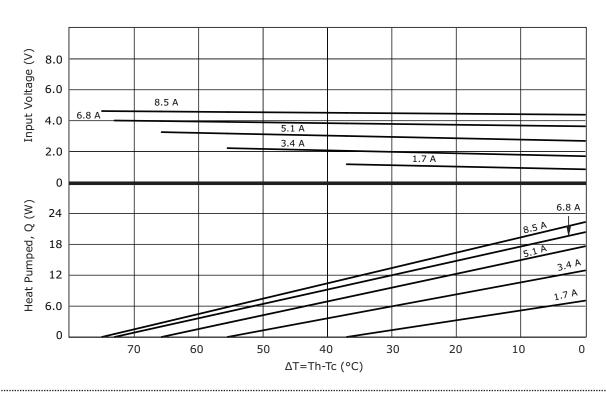
CP85204035 PERFORMANCE (Th=50°C)



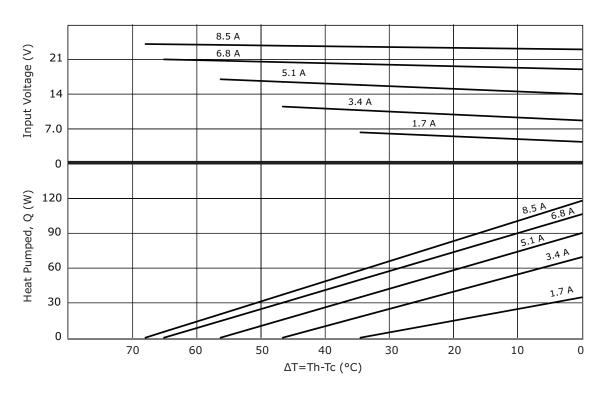
CP85301535 PERFORMANCE (Th=27°C)



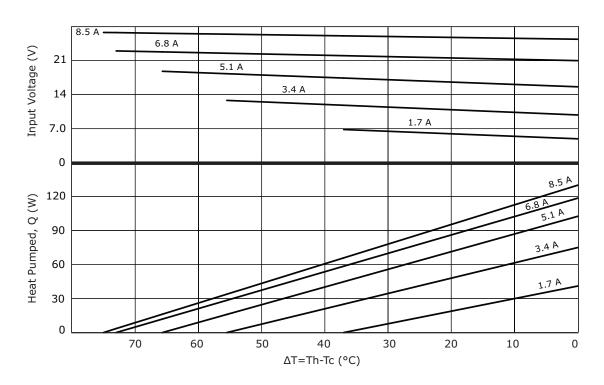
CP85301535 PERFORMANCE (Th=50°C)



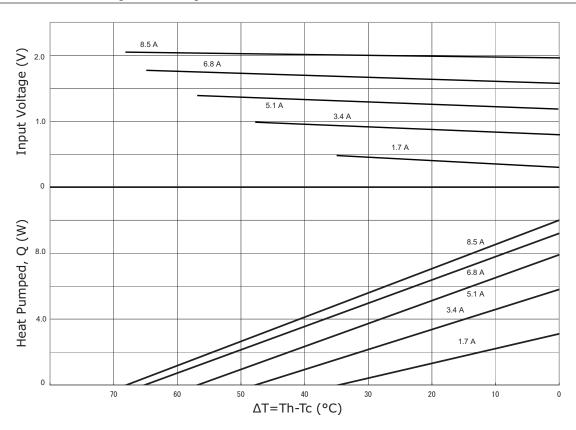
CP85435 PERFORMANCE (Th=27°C)



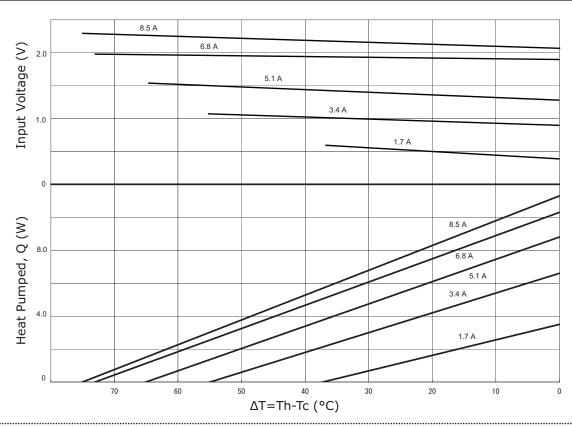
CP85435 PERFORMANCE (Th=50°C)



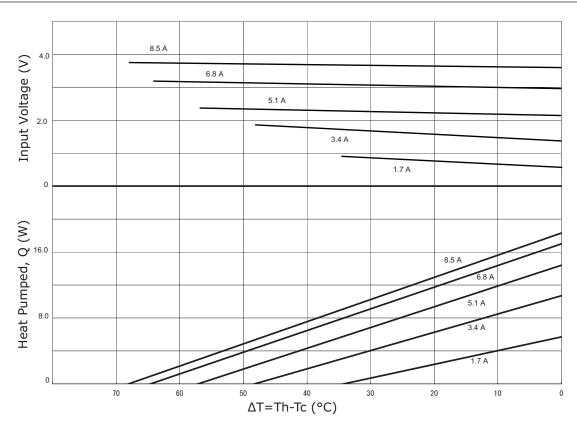
CP85138 PERFORMANCE (Th=27°C)



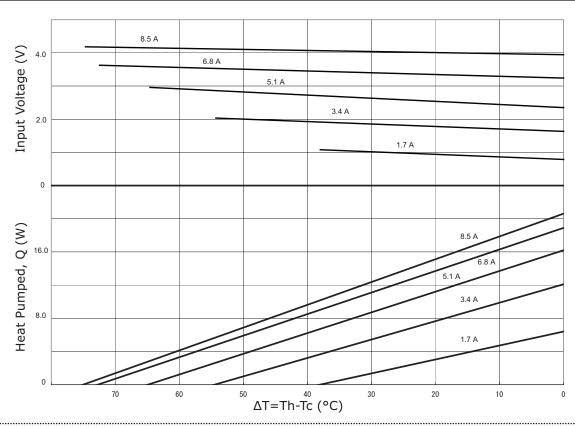
CP85138 PERFORMANCE (Th=50°C)



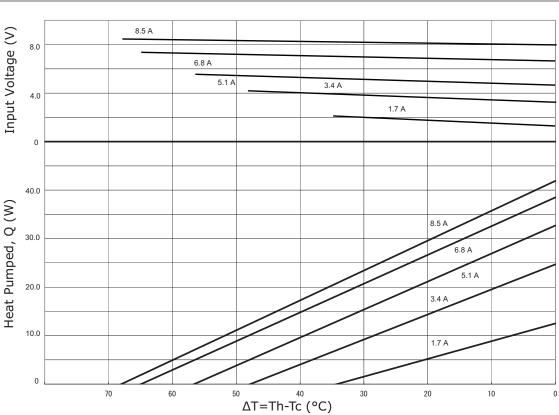
CP85238 PERFORMANCE (Th=27°C)



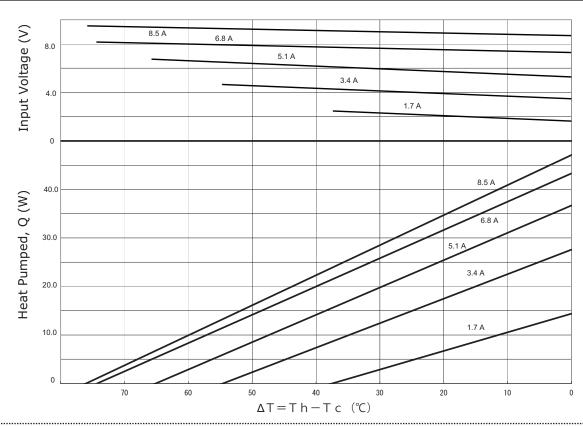
CP85238 PERFORMANCE (Th=50°C)



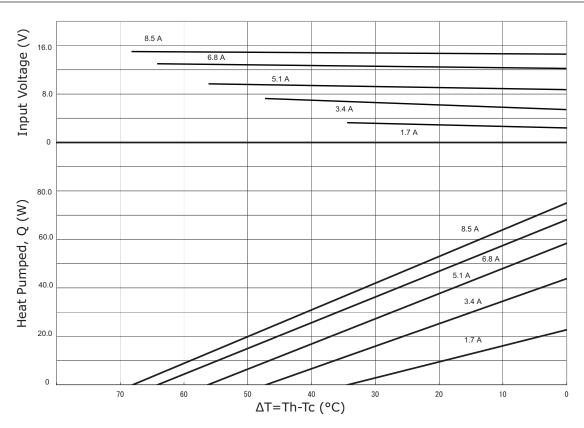
CUI Inc | SERIES: CP85 | DESCRIPTION: PELTIER MODULE



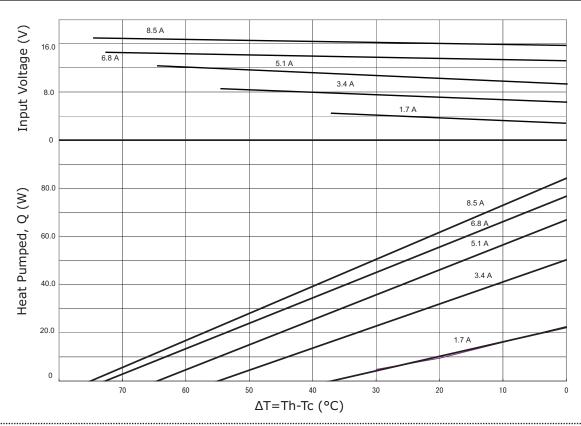
CP85338 PERFORMANCE (Th=50°C)



CP85438 PERFORMANCE (Th=27°C)



CP85438 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/08/2012
1.02	added new models	09/08/2016

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



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

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