

**SERIES:** CP30 | **DESCRIPTION:** 3.0 A PELTIER MODULE

**FEATURES**

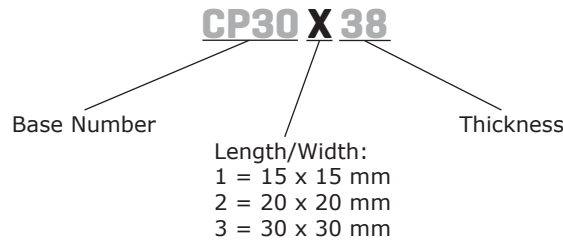
- solid state device
- small and lightweight
- precise temperature control
- quiet operation



MODEL	input voltage max (V)	input current max (A)	output Qmax <sup>1</sup>		output ΔTmax <sup>2</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)
CP30138	3.8	3	6.5	7.2	66	72
CP30238	8.6	3	15	16.7	66	72
CP30338	15.4	3	27	30.1	66	72

Notes: 1. maximum cooling capacity at I<sub>max</sub>, V<sub>max</sub> and ΔT=0°C  
 2. maximum temperature difference at I<sub>max</sub>, V<sub>max</sub> and Q=0W (maximum parameters are measured in a vacuum)

**PART NUMBER KEY**

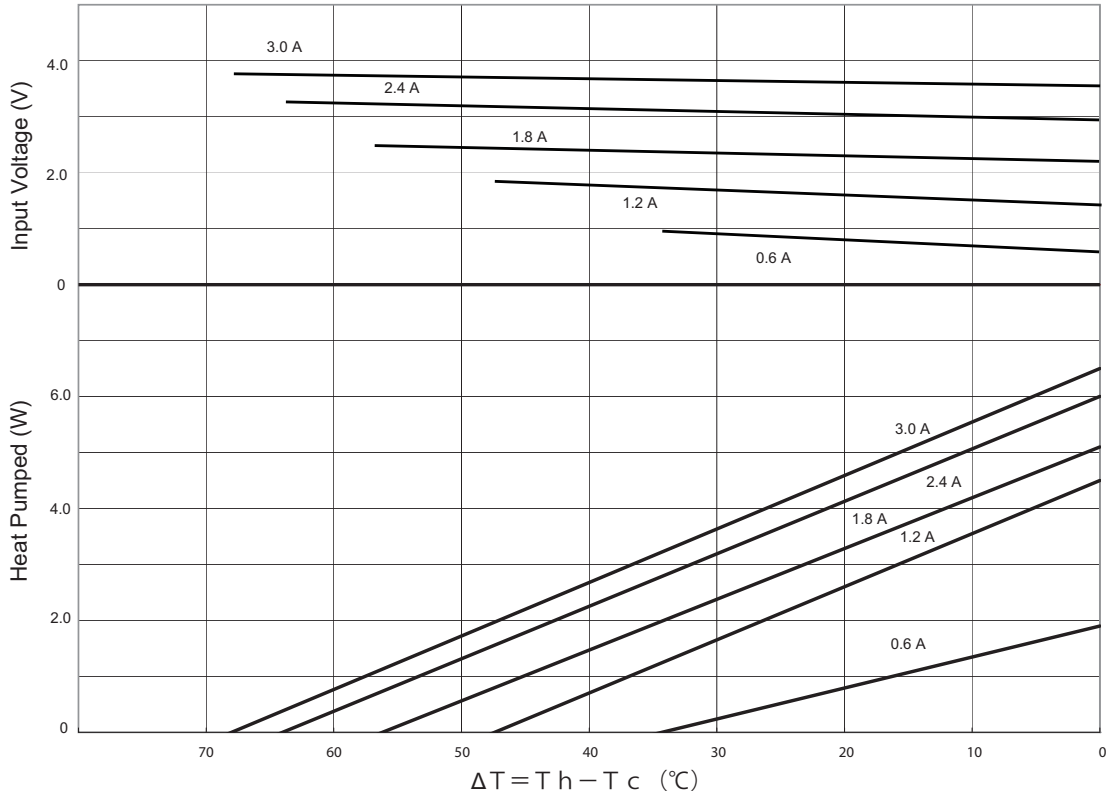


**GENERAL**

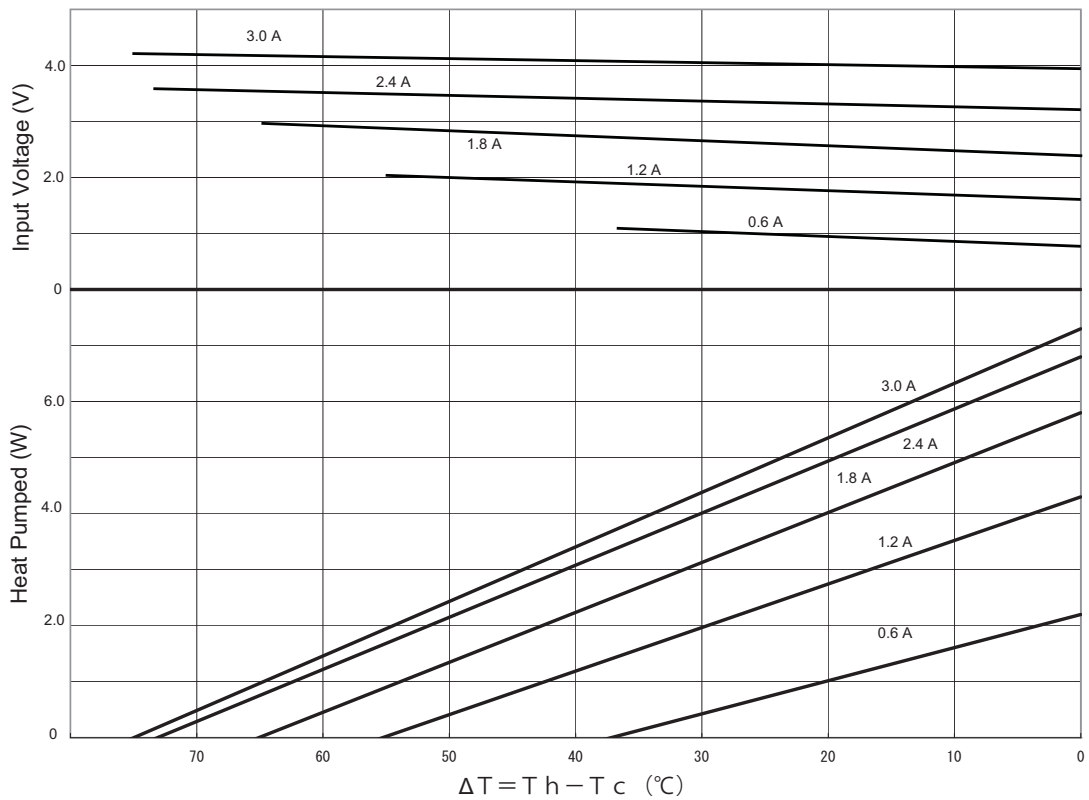
parameter	conditions/description	min	typ	max	units
internal resistance <sup>3</sup>	CP30138	0.9	1.0	1.1	Ω
	CP30238	2.07	2.3	2.53	Ω
	CP30338	3.6	4.0	4.4	Ω
solder melting temperature	connection between thermoelectric pairs			138	°C
assembly compression				98.07	N/cm <sup>2</sup>
				10	kgf/cm <sup>2</sup>
hot side plate				80	°C
MTBF				200,000	hours

Notes: 3. measured by AC 4-terminal method at 25°C

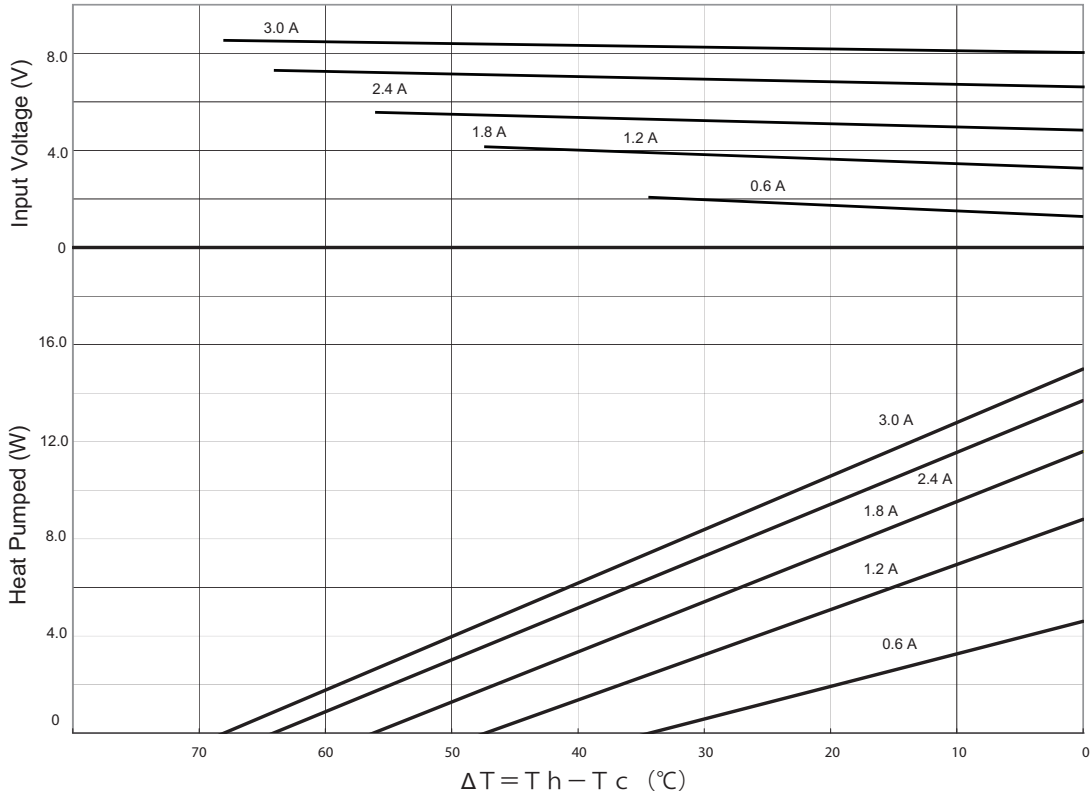
### CP30138 PERFORMANCE (Th=27°C)



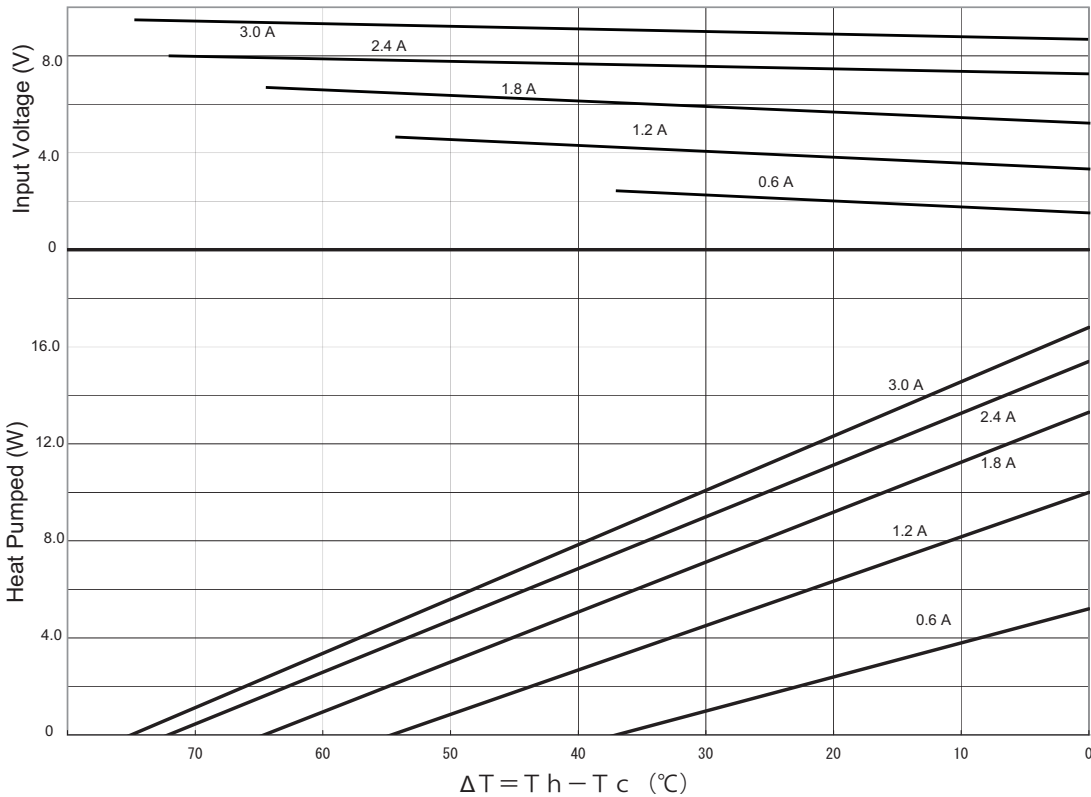
### CP30138 PERFORMANCE (Th=50°C)



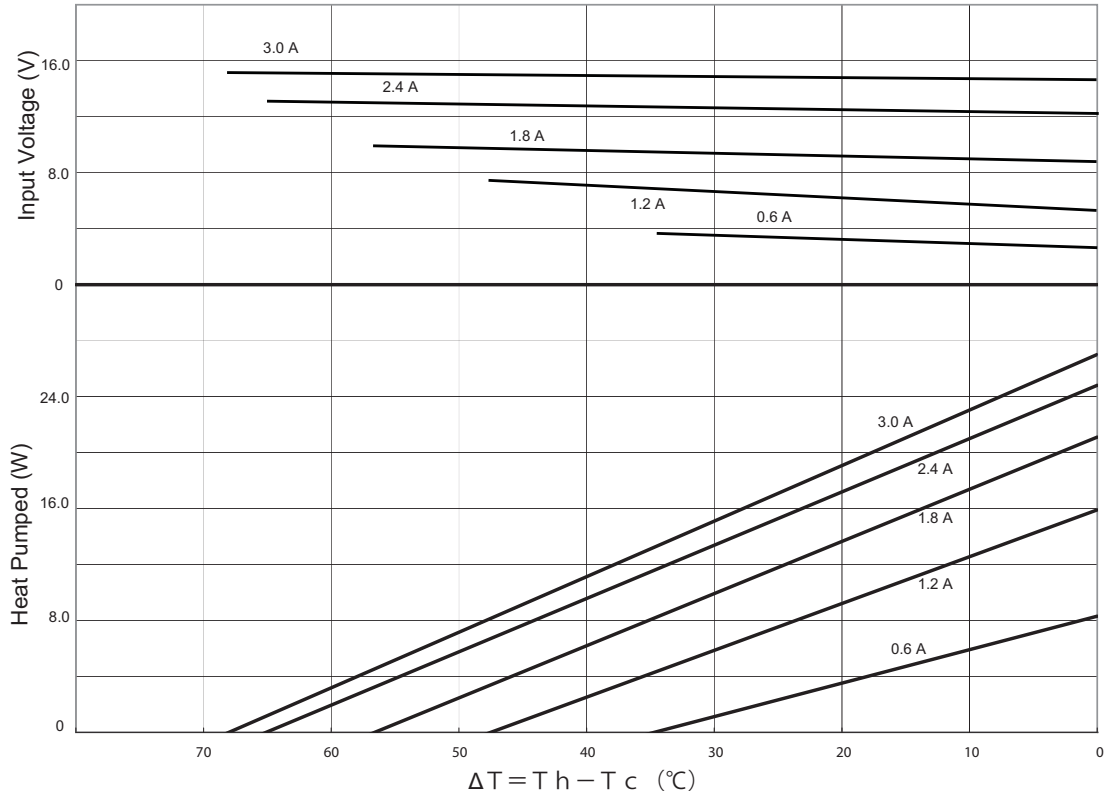
### CP30238 PERFORMANCE (Th=27°C)



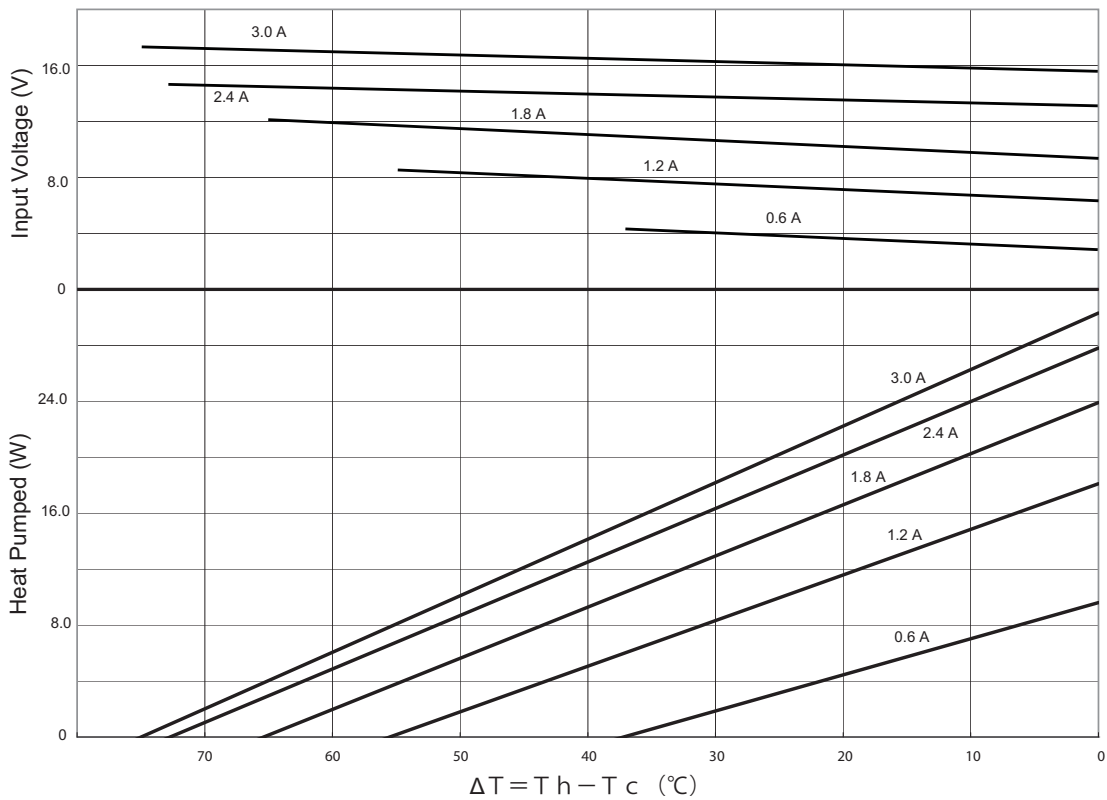
### CP30238 PERFORMANCE (Th=50°C)



### CP30338 PERFORMANCE (Th=27°C)

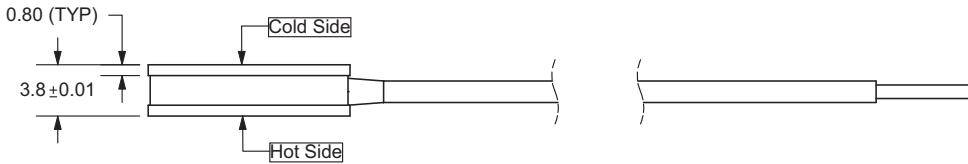


### CP30338 PERFORMANCE (Th=50°C)

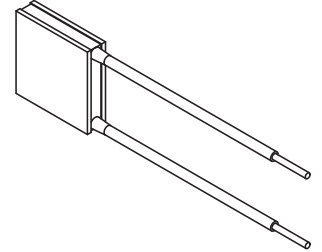
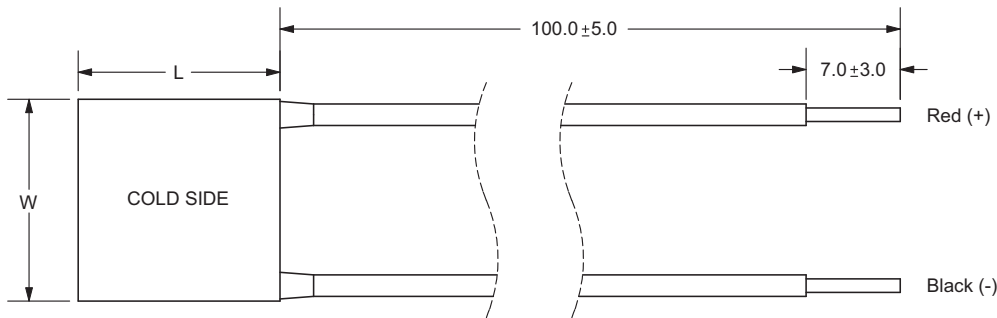


## MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	Al <sub>2</sub> O <sub>3</sub> (Alumina)	
sealer	silicon rubber RTV	
lead wire	UL1430 (22AWG)	tin
joint cover	silicon rubber RTV	



MODEL	LENGTH x WIDTH (mm)
CP30138	15 x 15 ±0.3
CP30238	20 x 20 ±0.3
CP30338	30 x 30 ±0.3

## REVISION HISTORY

rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/07/2012

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



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