

**SERIES:** CP30 | **DESCRIPTION:** PELTIER MODULE**FEATURES**

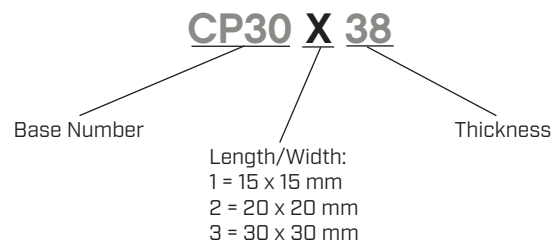
- solid state device
- small and lightweight
- precise temperature control
- quiet operation

**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**

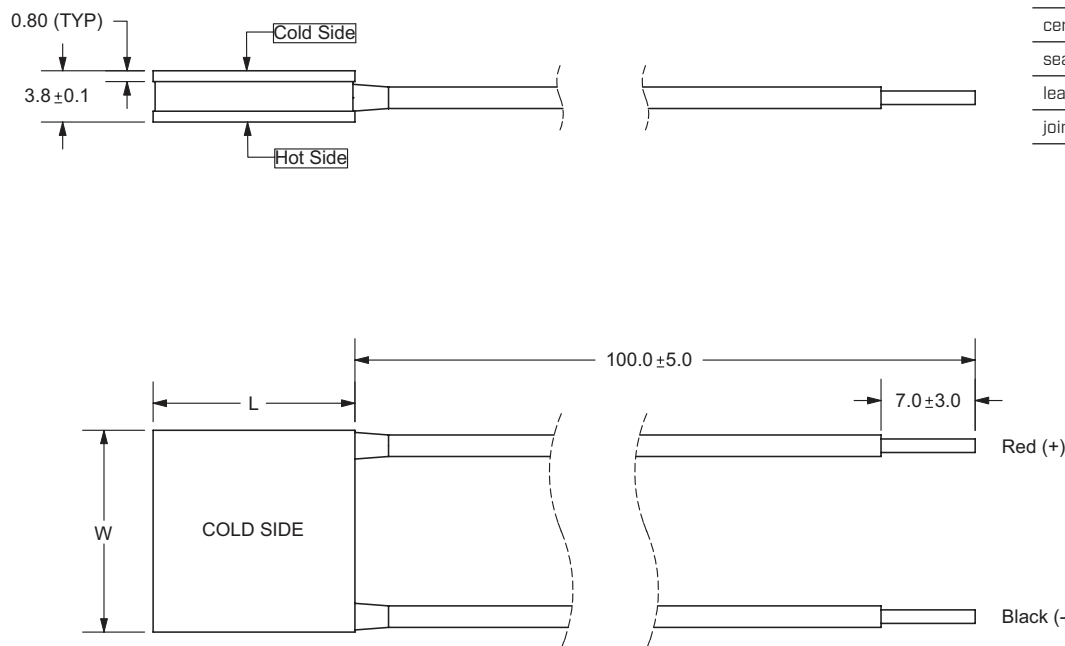
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance <sup>3</sup>	CP30138	0.9	1.0	1.1	$\Omega$
	CP30238	2.07	2.3	2.53	$\Omega$
	CP30338	3.6	4.0	4.4	$\Omega$
solder melting temperature	connection between thermoelectric pairs			138	$^{\circ}\text{C}$
assembly compression				98.07 10	N/cm <sup>2</sup> kgf/cm <sup>2</sup>
RoHS	yes				

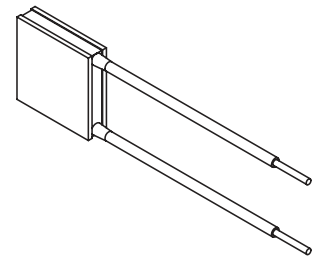
Notes: 3. measured by AC 4-terminal method at 25°C

## MECHANICAL DRAWING

units: mm

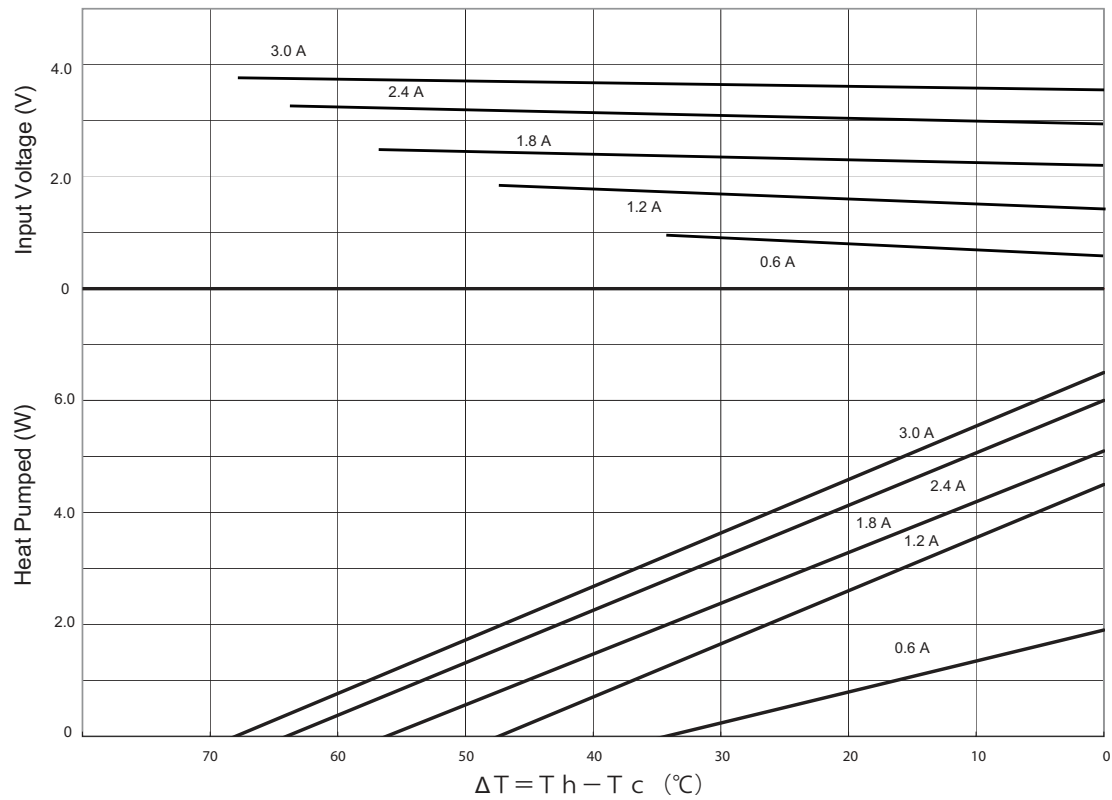


	MATERIAL	PLATING
ceramic plate	Al <sub>2</sub> O <sub>3</sub> (Alumina)	
sealer	silicon rubber RTV	
lead wire	UL1430 [22AWG]	tin
joint cover	silicon rubber RTV	

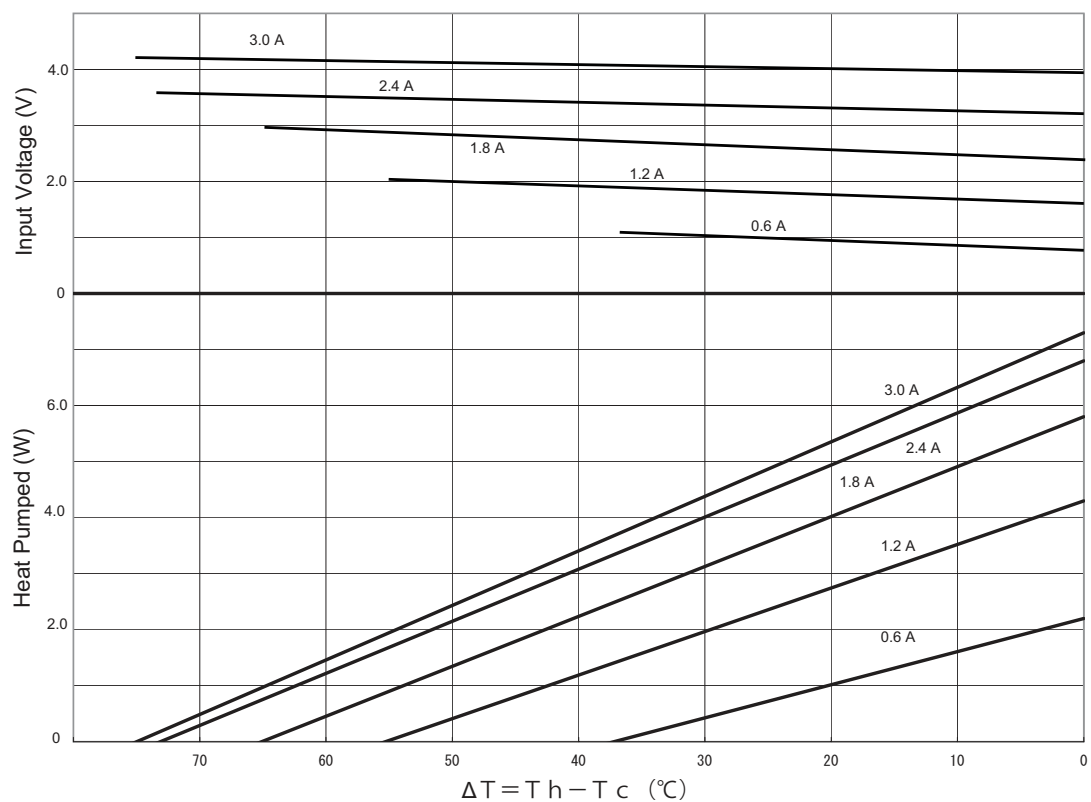


MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP30138	15 $\pm$ 0.3	15 $\pm$ 0.3	3.8 $\pm$ 0.1
CP30238	20 $\pm$ 0.3	20 $\pm$ 0.3	3.8 $\pm$ 0.1
CP30338	30 $\pm$ 0.3	30 $\pm$ 0.3	3.8 $\pm$ 0.1

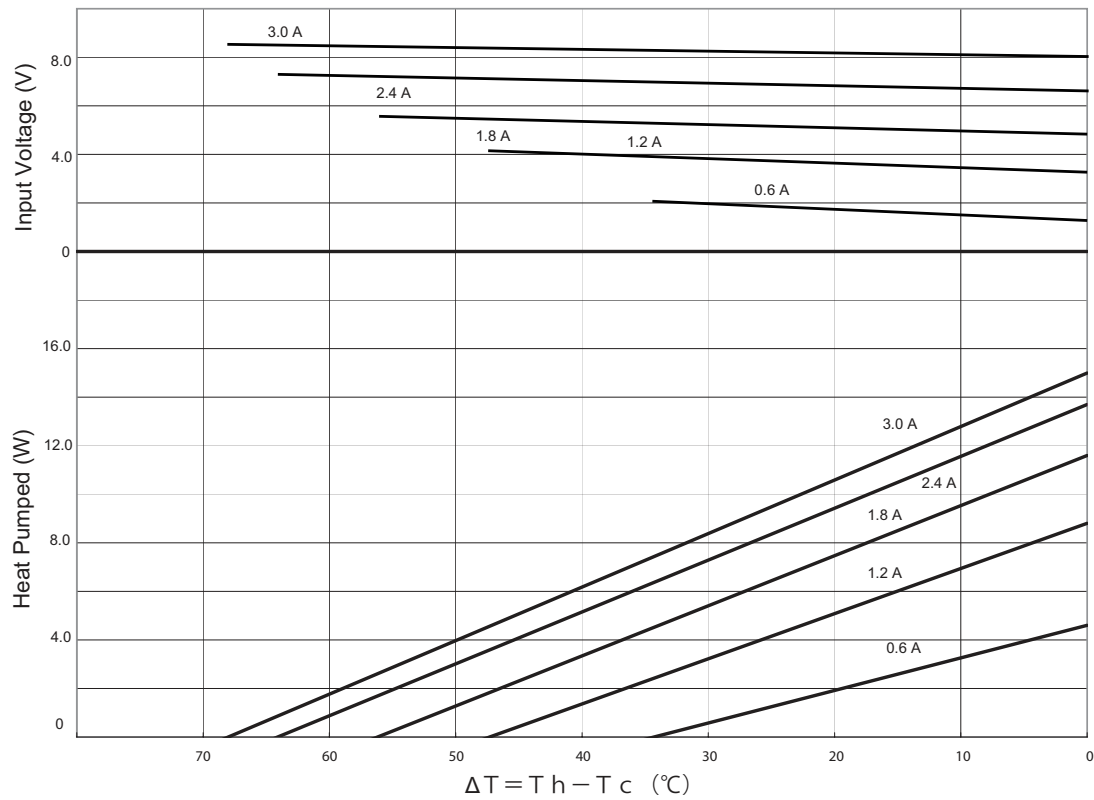
## CP30138 PERFORMANCE (Th=27°C)



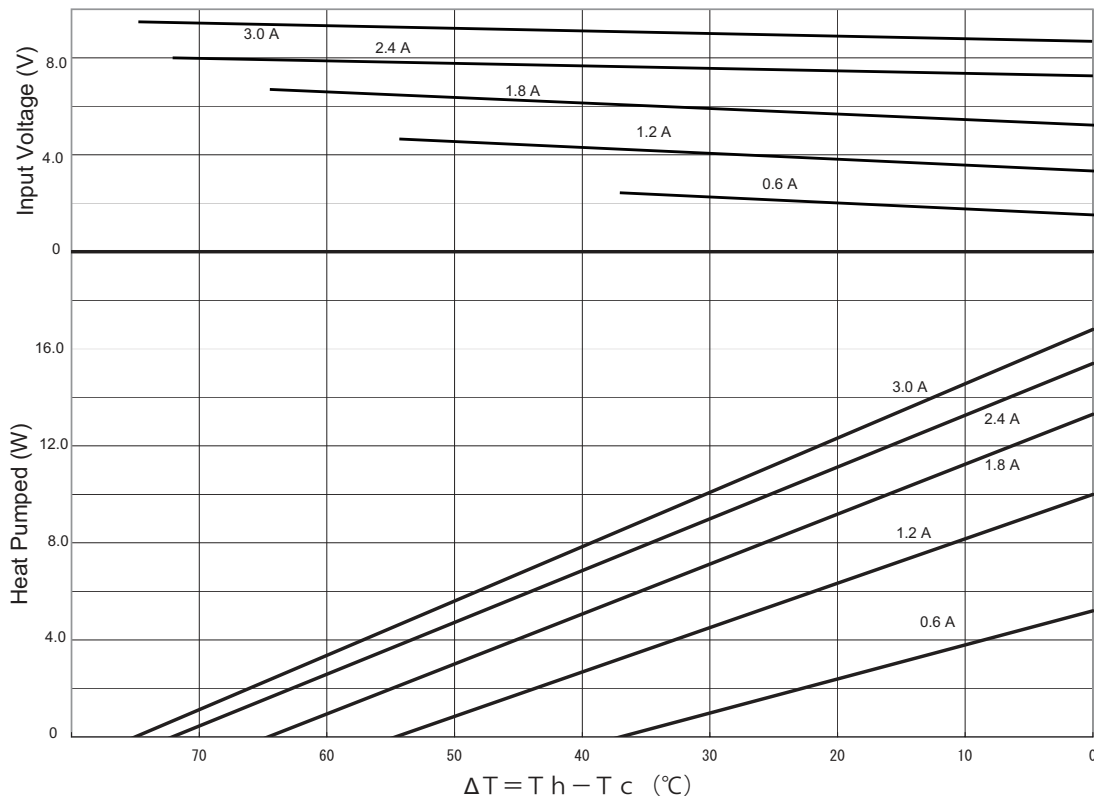
## CP30138 PERFORMANCE (Th=50°C)



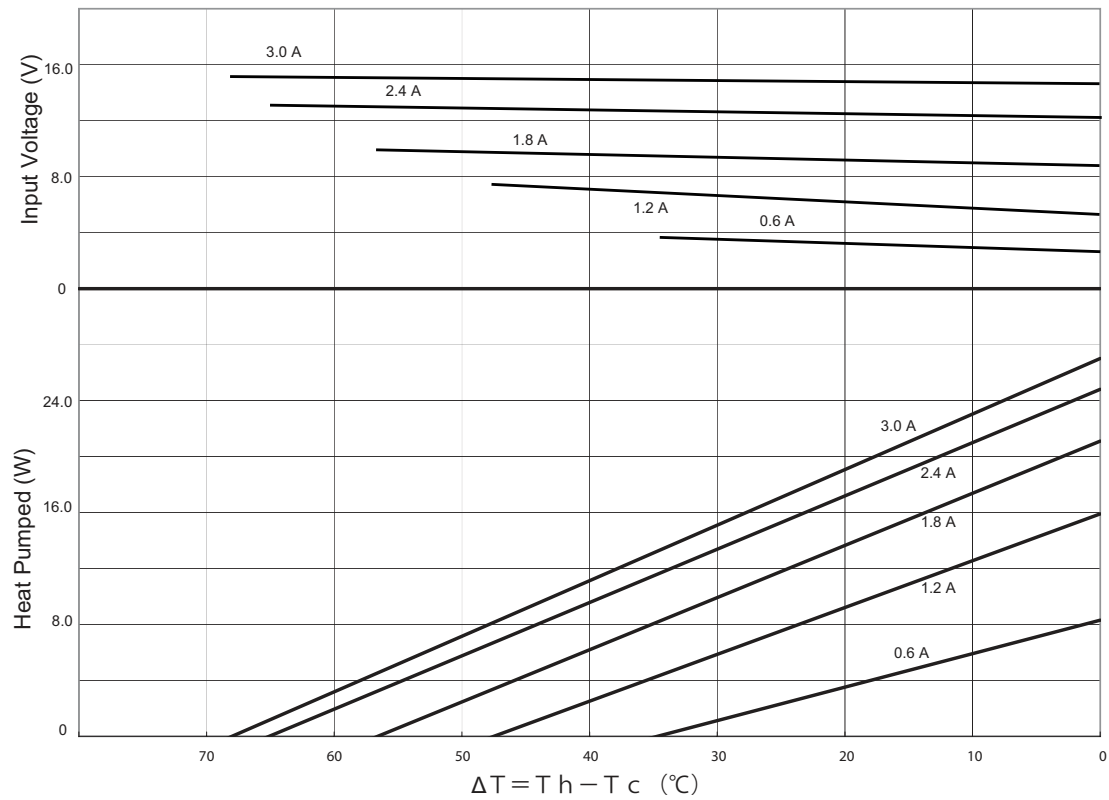
## CP30238 PERFORMANCE (Th=27°C)



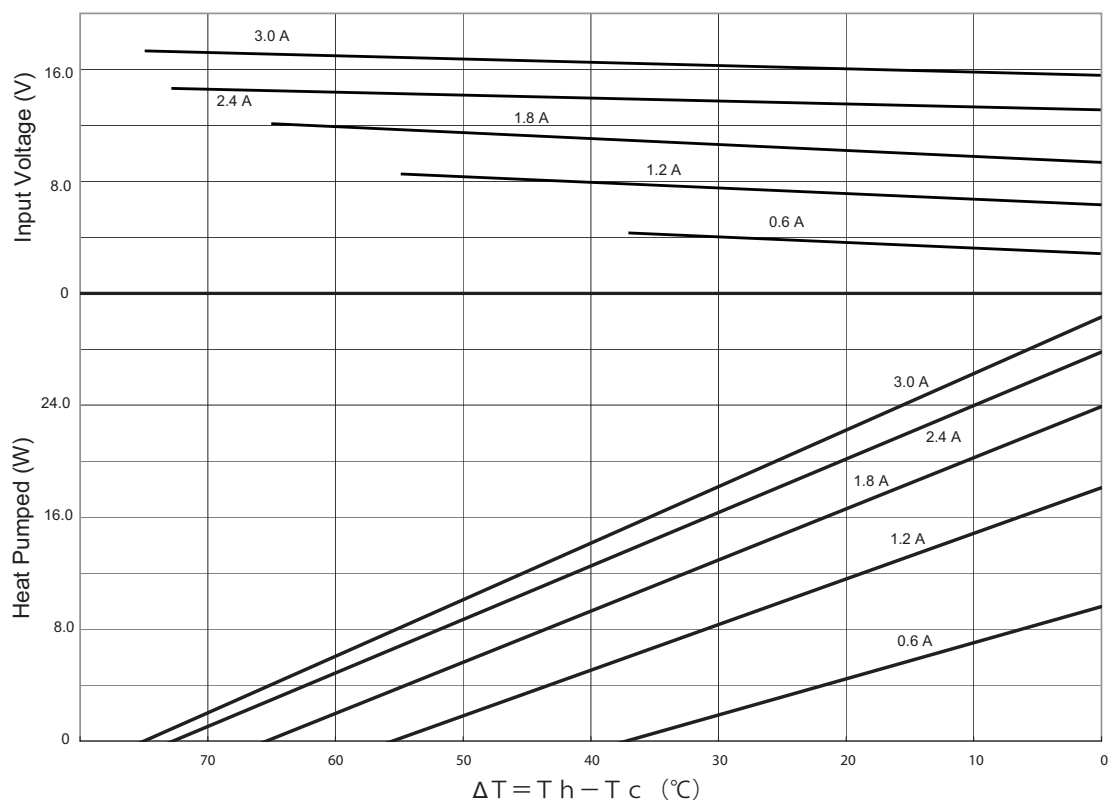
## CP30238 PERFORMANCE (Th=50°C)



## CP30338 PERFORMANCE (Th=27°C)



## CP30338 PERFORMANCE (Th=50°C)



## REVISION HISTORY

rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/07/2012
1.02	brand update	10/30/2019
1.03	logo, datasheet style update	08/05/2022

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



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