SERIES: CP30 | DESCRIPTION: 3.0 A PELTIER MODULE

FEATURES

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



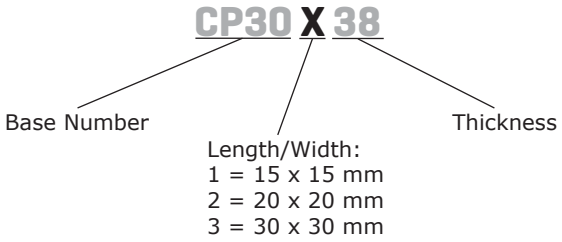
RoHS

MODEL

MODEL	input voltage max (V)	input current max (A)	output Qmax[1] T_h=27°C (W)	output Qmax[1] T_h=50°C (W)	output ΔTmax[2] T_h=27°C (°C)	output ΔTmax[2] T_h=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_{max}, V_{max}, and ΔT=0°C
2. maximum temperature difference at I_{max}, V_{max}, and Q=0W (maximum parameters are measured in a vacuum)

PART NUMBER KEY



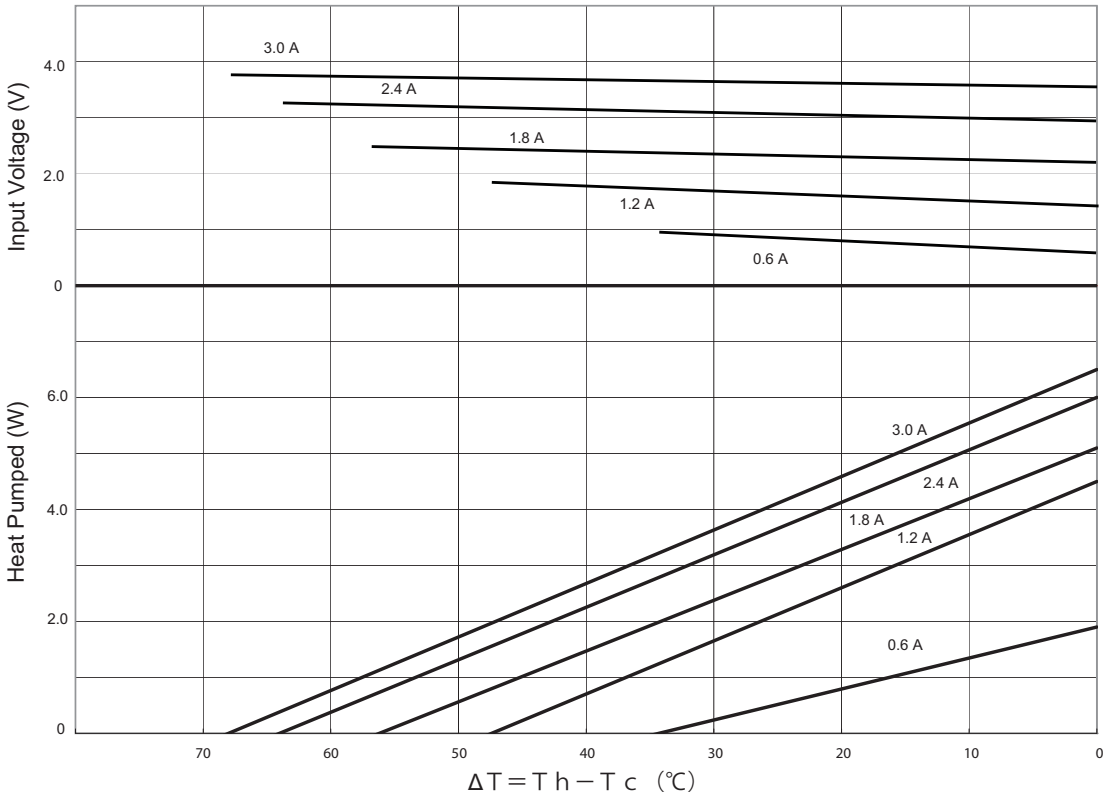
GENERAL

parameter	conditions/description	min	typ	max	units
internal resistance[3]	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 termoelectric pairs			138	°C
assembly compression				98.07 10	N/cm² kgf/cm²
hot side plate				80	°C
MTBF				200,000	hours

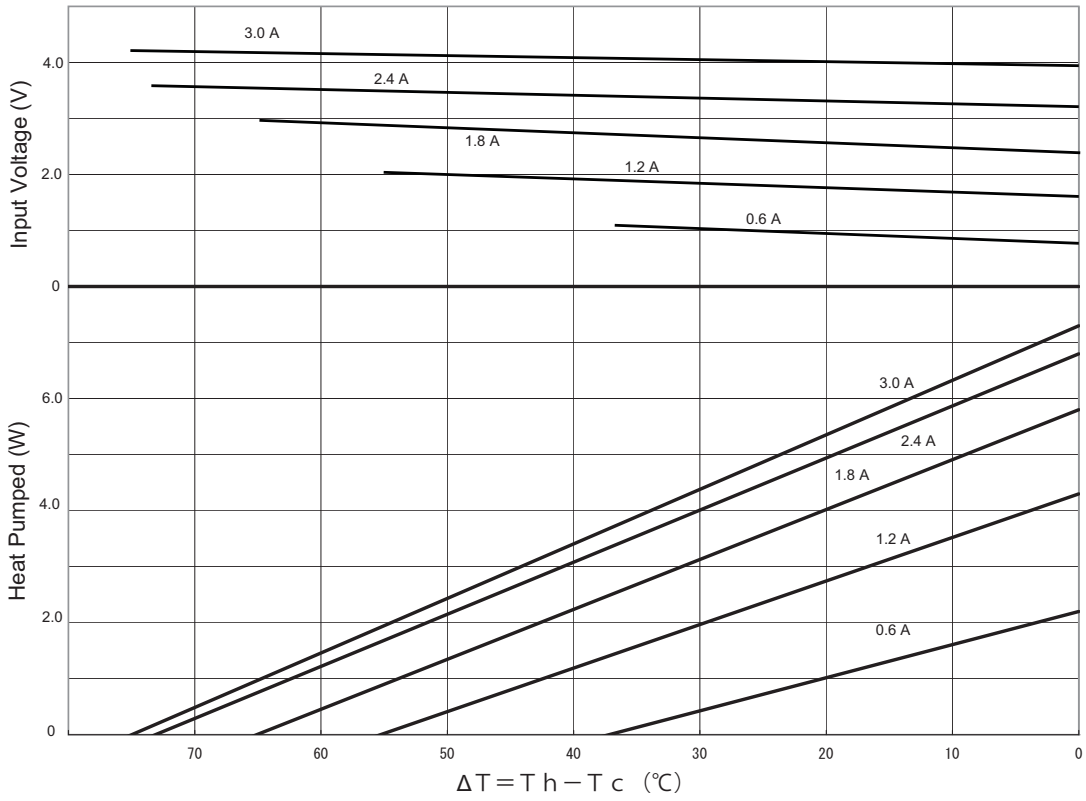
Notes: 3. measured by AC 4-terminal method at 25°C

For further information and product selection refer to peltier applicaftion notes.pdf

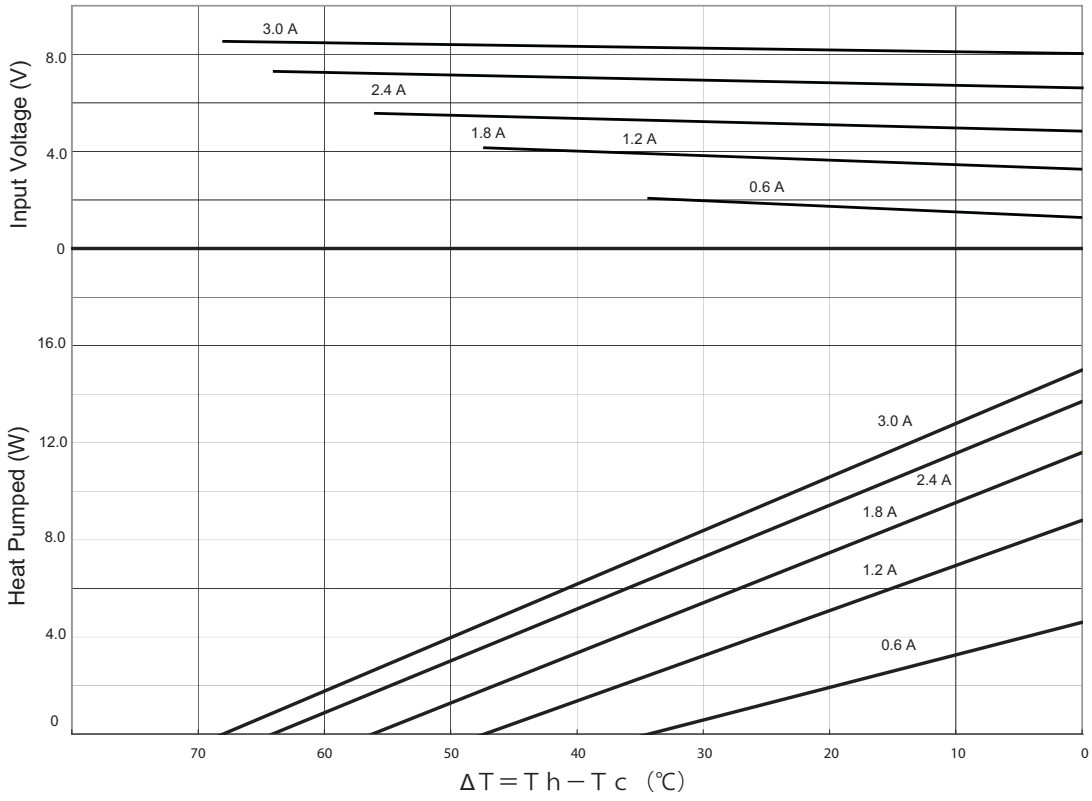
CP30138 PERFORMANCE (Th=27°C)



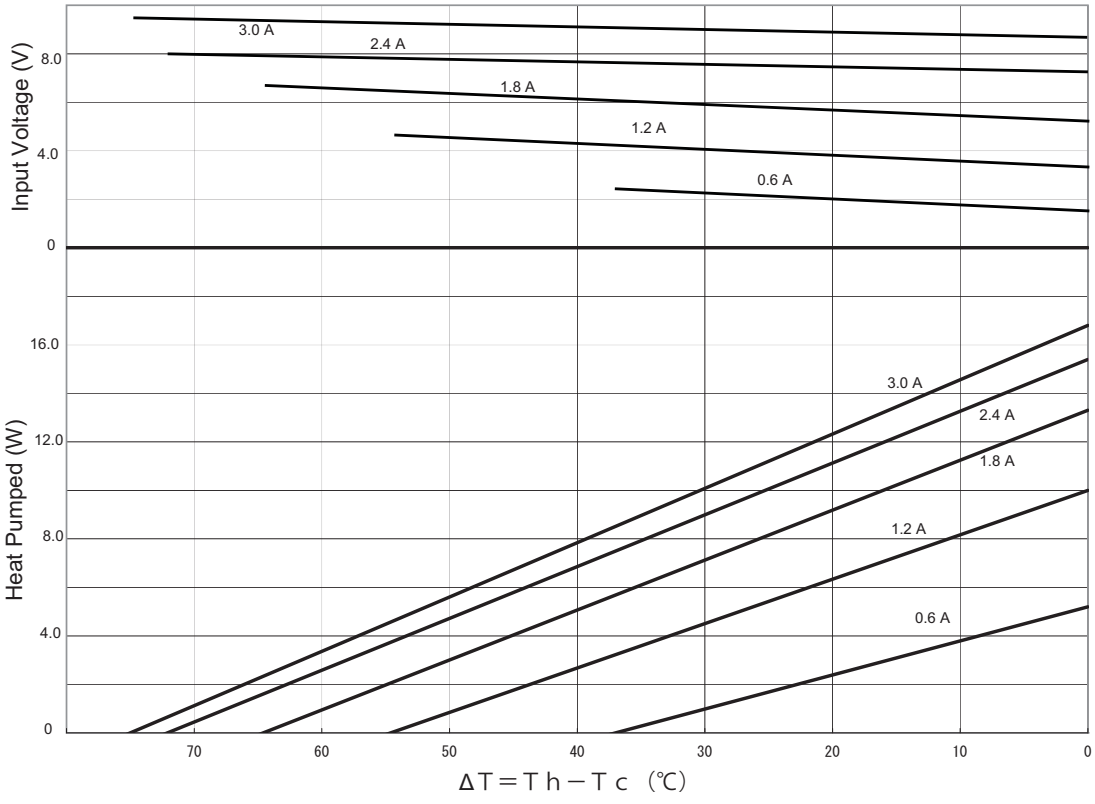
CP30138 PERFORMANCE (Th=50°C)



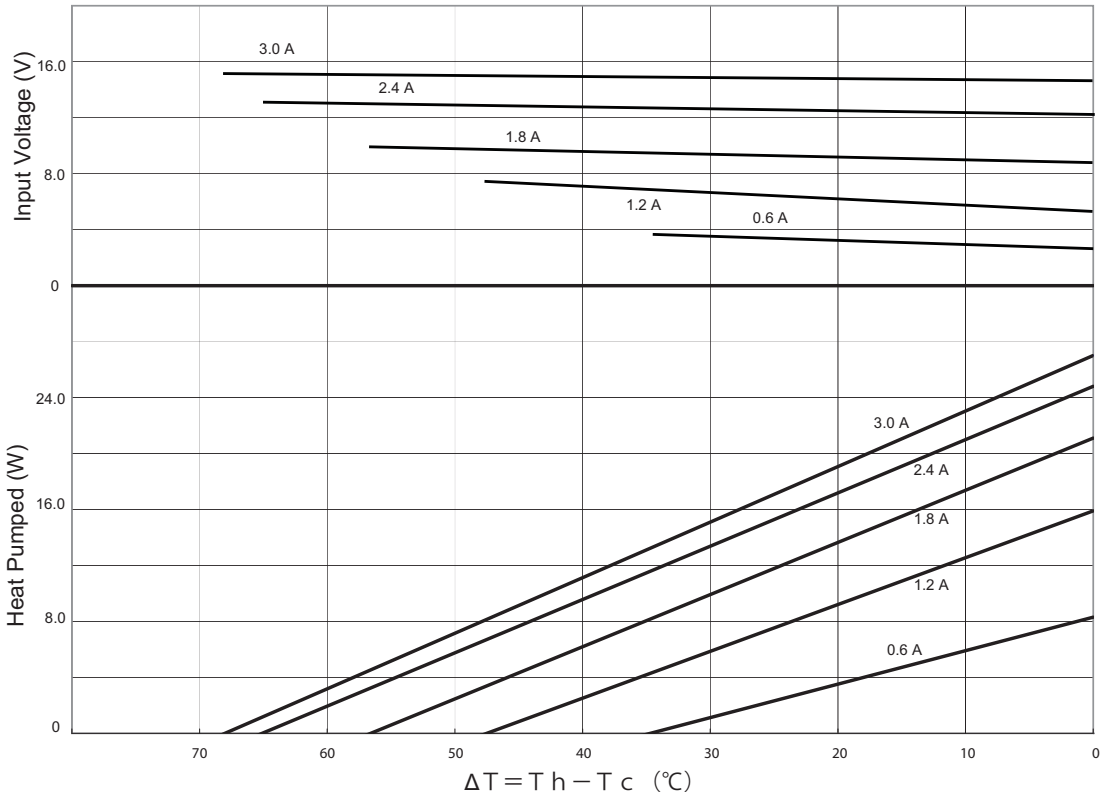
CP30238 PERFORMANCE (Th=27°C)



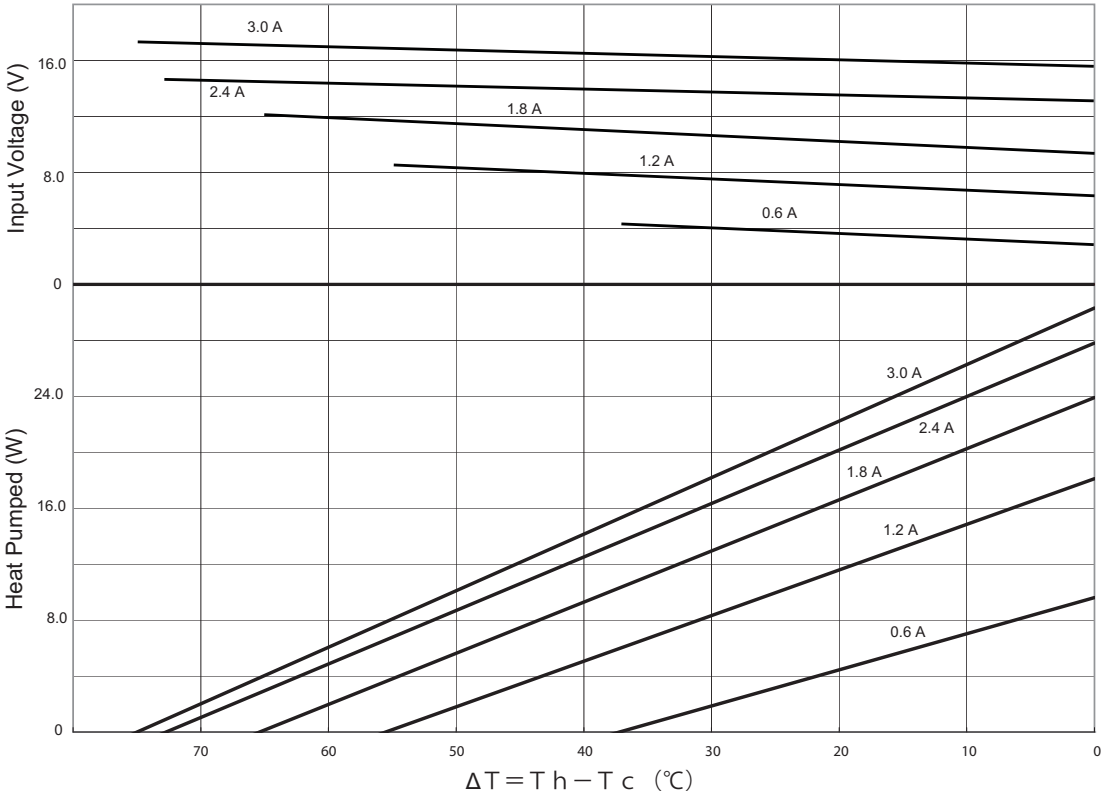
CP30238 PERFORMANCE (Th=50°C)



CP30338 PERFORMANCE (Th=27°C)

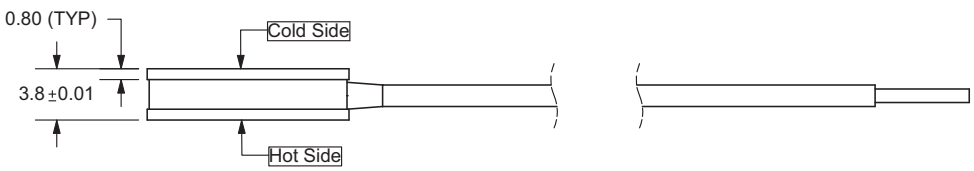


CP30338 PERFORMANCE (Th=50°C)

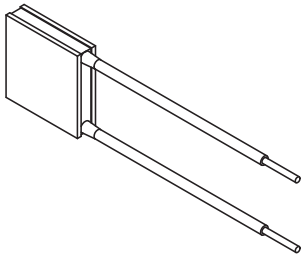


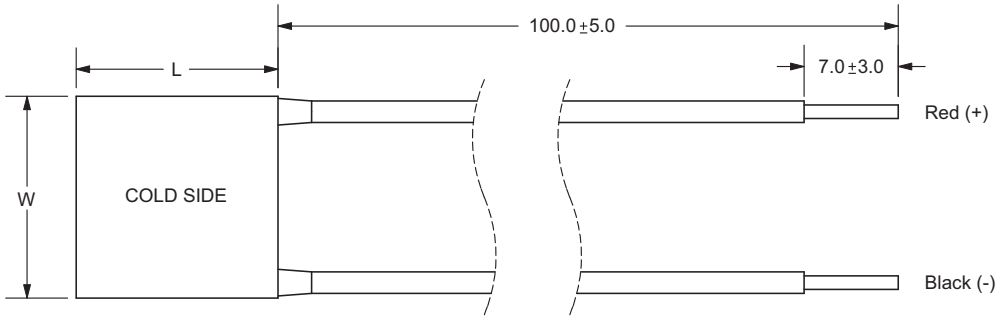
MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	Al_2O_3 (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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