

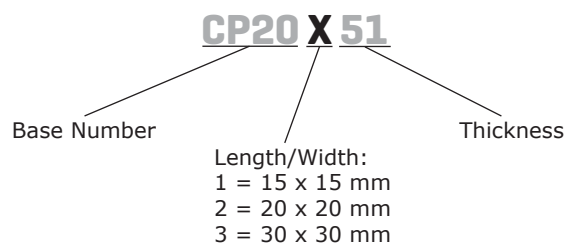
**SERIES:** CP20 | **DESCRIPTION:** 2.0 A PELTIER MODULE
**FEATURES**

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

**MODEL**

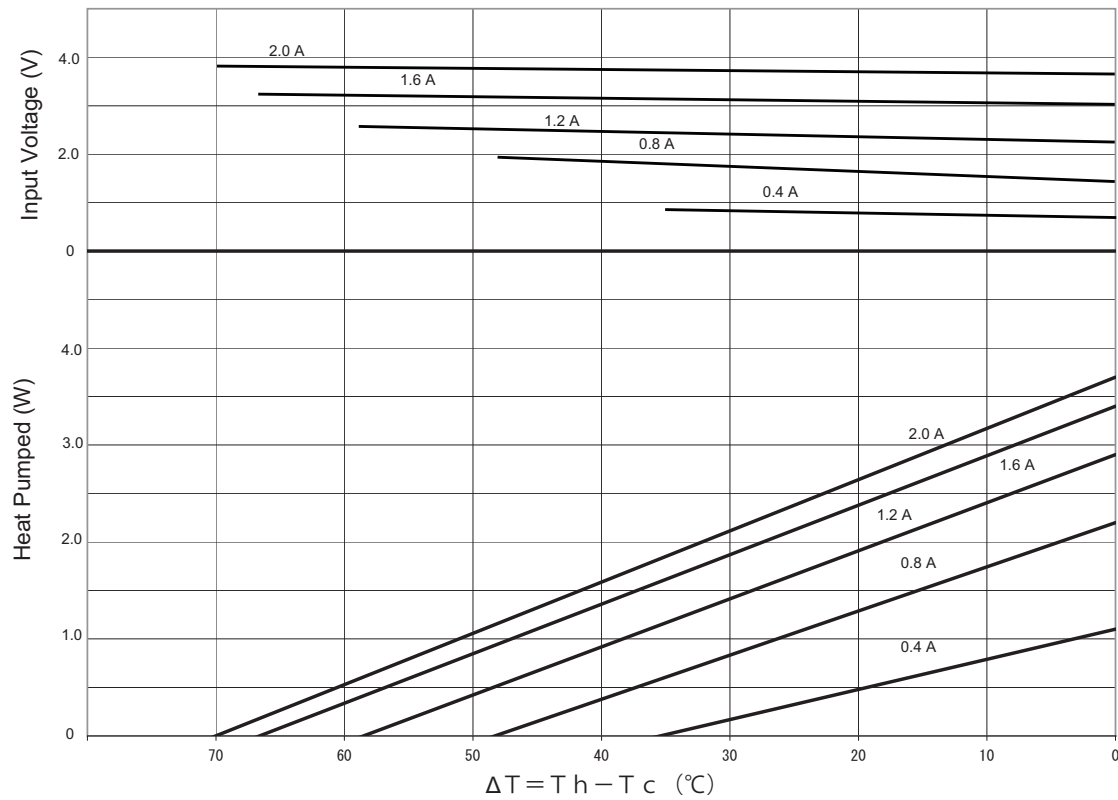
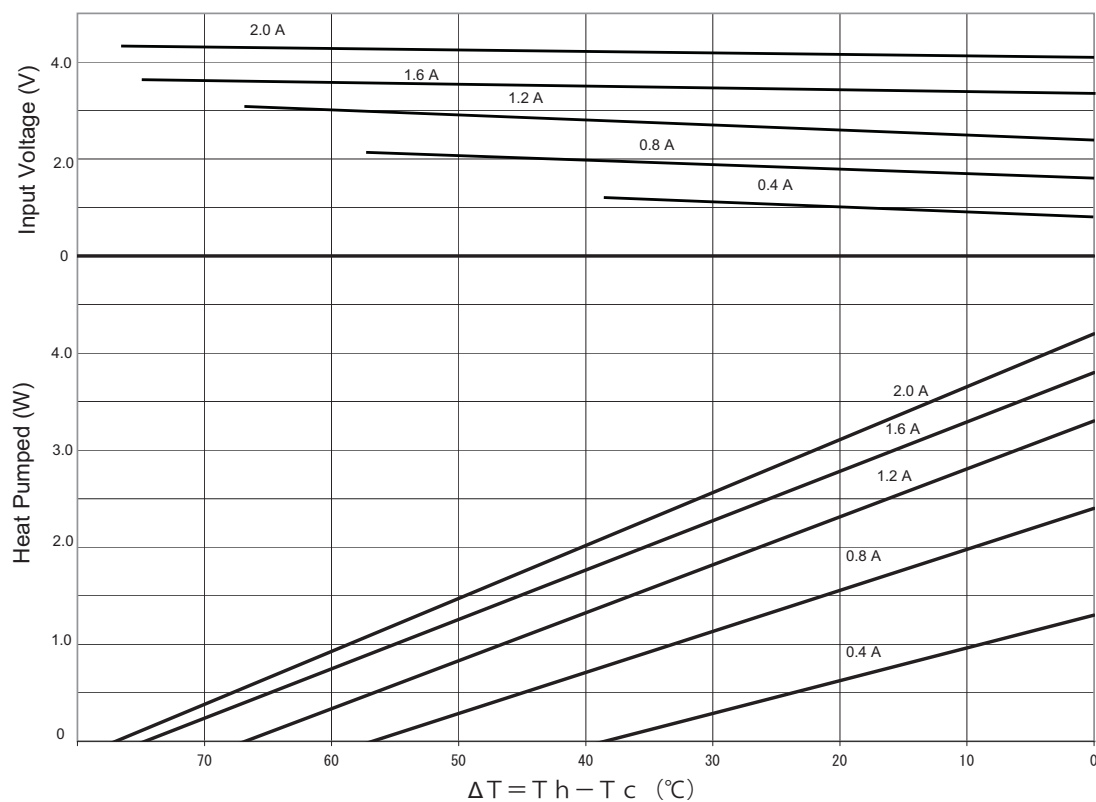
MODEL	input voltage max (V)	input current max (A)	output Q <sub>max</sub> <sup>1</sup>		output ΔT <sub>max</sub> <sup>2</sup>	
			T <sub>h</sub> = 27°C (W)	T <sub>h</sub> = 50°C (W)	T <sub>h</sub> = 27°C (°C)	T <sub>h</sub> = 50°C (°C)
CP20151	3.8	2	3.7	4.0	66	72
CP20251	8.6	2	8.5	9.4	66	72
CP20351	15.4	2	15.2	16.9	66	72

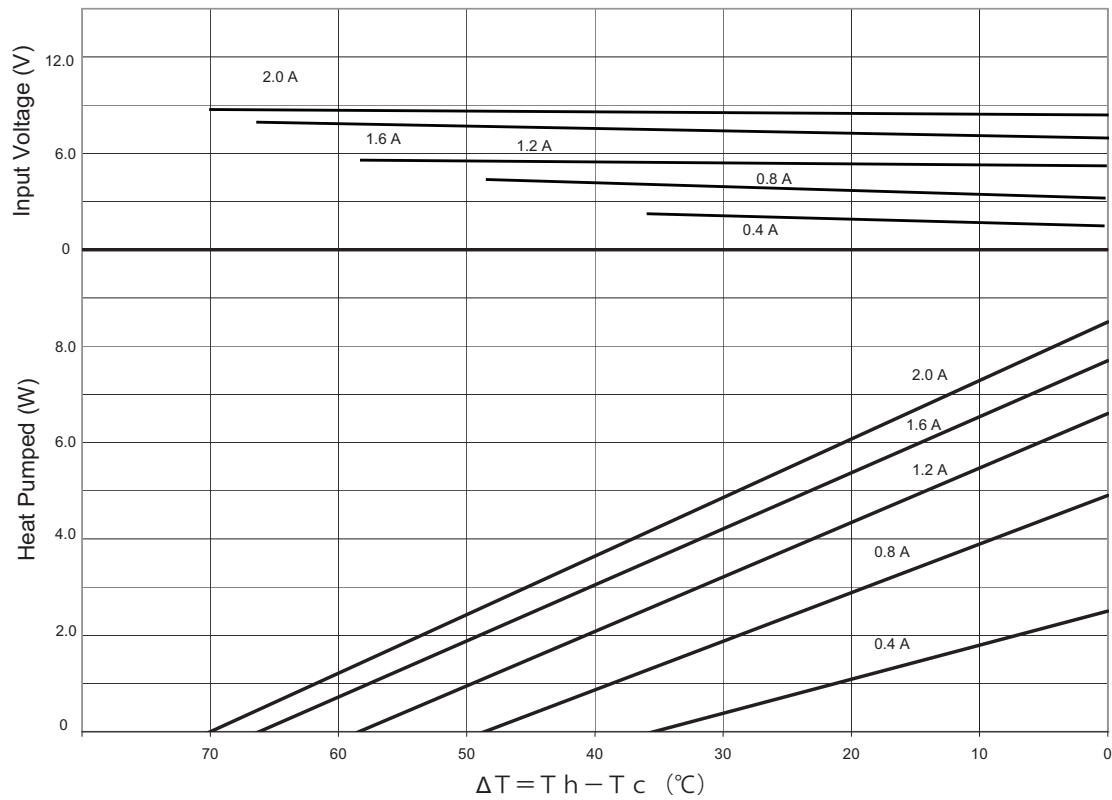
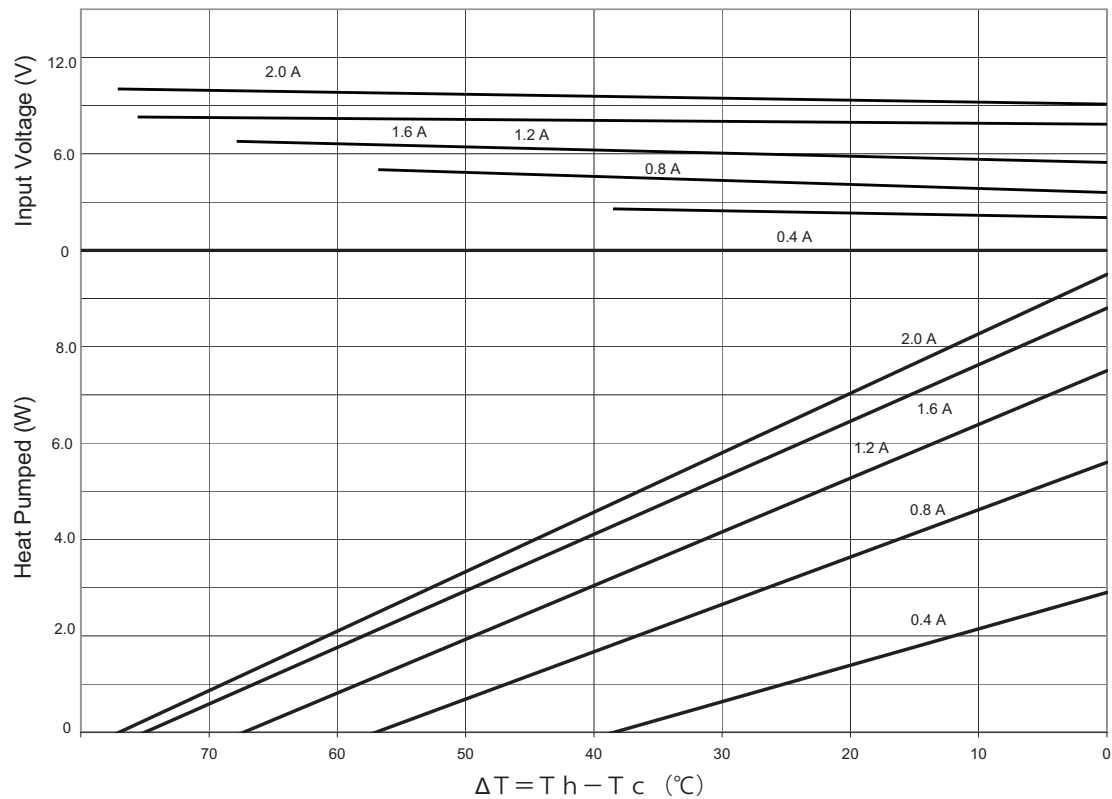
Notes: 1. maximum cooling capacity at I<sub>max</sub>, V<sub>max</sub> and ΔT=0°C  
 2. maximum temperature difference at I<sub>max</sub>, V<sub>max</sub> and Q=0W (maximum parameters are measured in a vacuum)

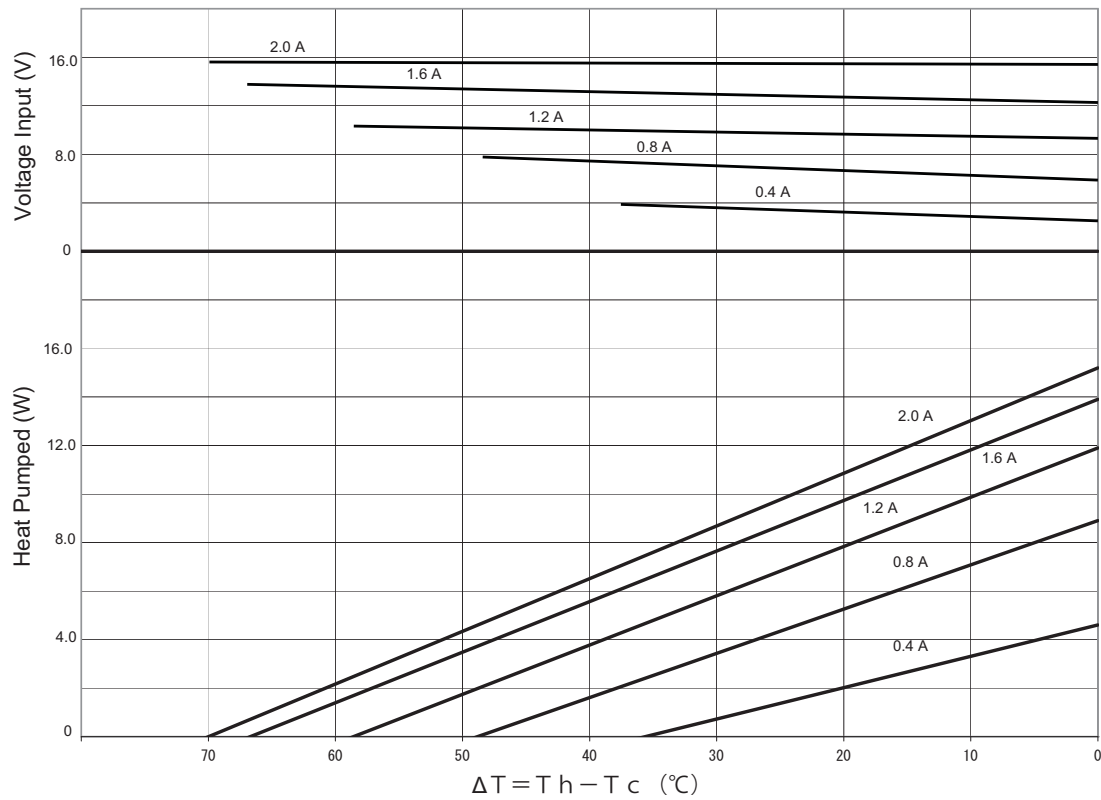
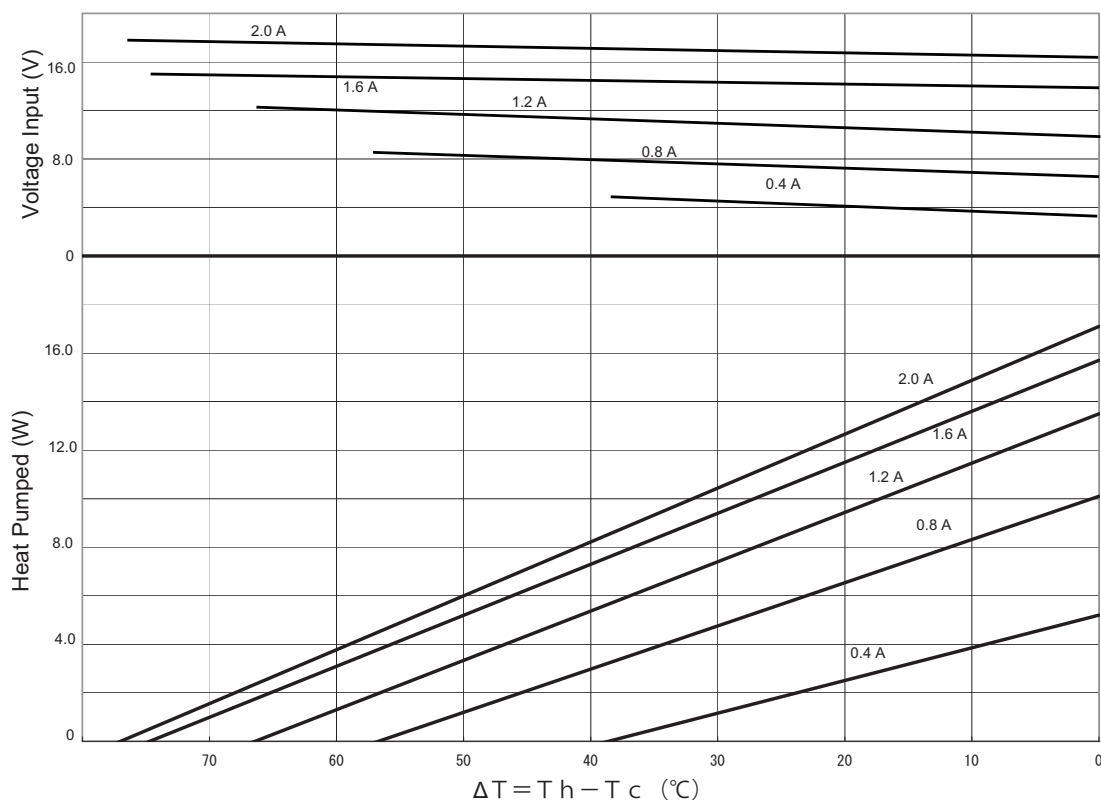
**PART NUMBER KEY****GENERAL**

parameter	conditions/description	min	typ	max	units
internal resistance <sup>3</sup>	CP20151	1.44	1.6	1.76	Ω
	CP20251	3.33	3.7	4.07	Ω
	CP20351	6.03	6.7	7.37	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

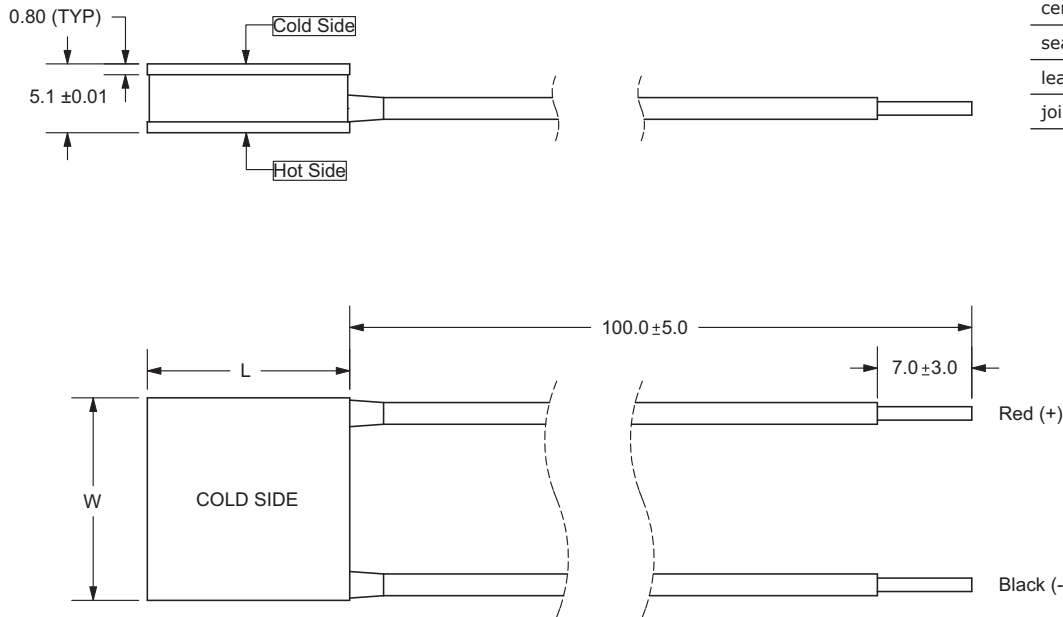
**CP20151 PERFORMANCE (Th=27°C)****CP20151 PERFORMANCE (Th=50°C)**

**CP20251 PERFORMANCE (Th=27°C)****CP20251 PERFORMANCE (Th=50°C)**

**CP20351 PERFORMANCE (Th=27°C)****CP20351 PERFORMANCE (Th=50°C)**

## MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	$\text{Al}_2\text{O}_3$ (Alumina)	
sealer	silicon rubber RTV	
lead wire	UL1430 (22AWG)	tin
joint cover	silicon rubber RTV	

MODEL	LENGTH x WIDTH [mm]
CP20151	15 x 15 $\pm 0.3$
CP20251	20 x 20 $\pm 0.3$
CP20351	30 x 30 $\pm 0.3$

## 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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