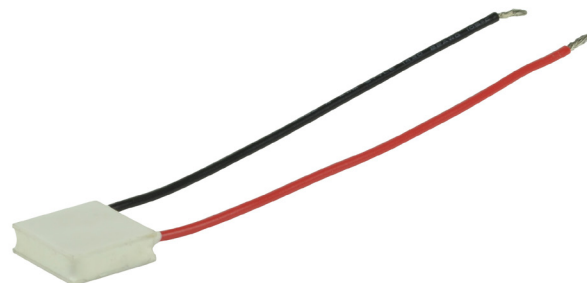




**SERIES:** CP20 | **DESCRIPTION:** PELTIER MODULE

**FEATURES**

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



MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	internal resistance <sup>3</sup> typ ( $\Omega \pm 10\%$ )	output $Q_{max}^4$		output $\Delta T_{max}^5$	
				$T_h = 27^\circ C$ (W)	$T_h = 50^\circ C$ (W)	$T_h = 27^\circ C$ ( $^\circ C$ )	$T_h = 50^\circ C$ ( $^\circ C$ )
CP20151	3.8	2	1.6	3.7	4.0	66	72
CP20251	8.6	2	3.5	8.5	9.4	66	72
CP20351	15.4	2	6.7	15.2	16.9	66	72

Notes:

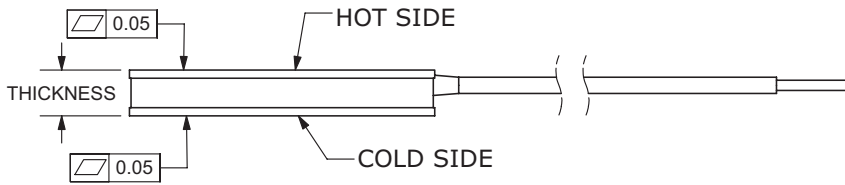
1. Maximum voltage at  $\Delta T_{max}$  and  $T_h = 27^\circ C$
2. Maximum current to achieve  $\Delta T_{max}$
3. Measured by AC 4-terminal method at  $25^\circ C$
4. Maximum heat absorbed at cold side occurs at  $I_{max}$ ,  $V_{max}$ , and  $\Delta T = 0^\circ C$
5. Maximum temperature difference occurs at  $I_{max}$ ,  $V_{max}$ , and  $Q=0W$  ( $\Delta T_{max}$  measured in a vacuum at 1.3 Pa)

## SPECIFICATIONS

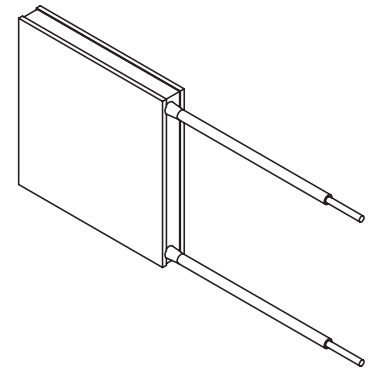
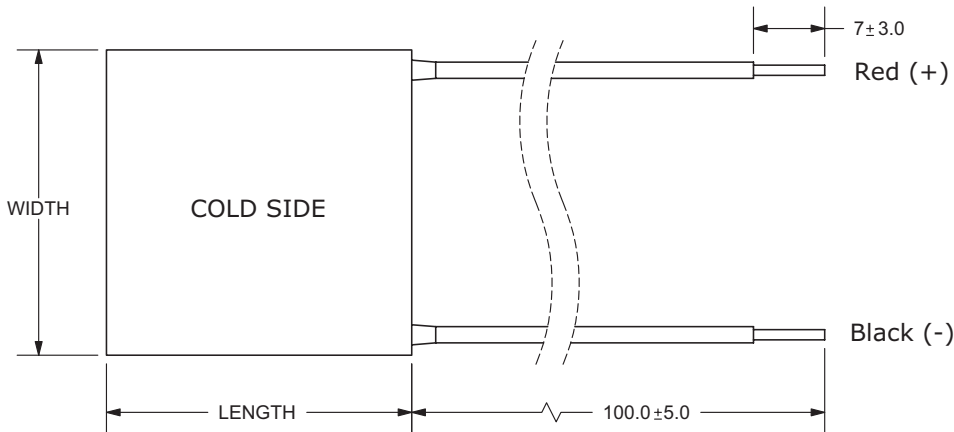
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	yes				

## MECHANICAL DRAWING

units: mm

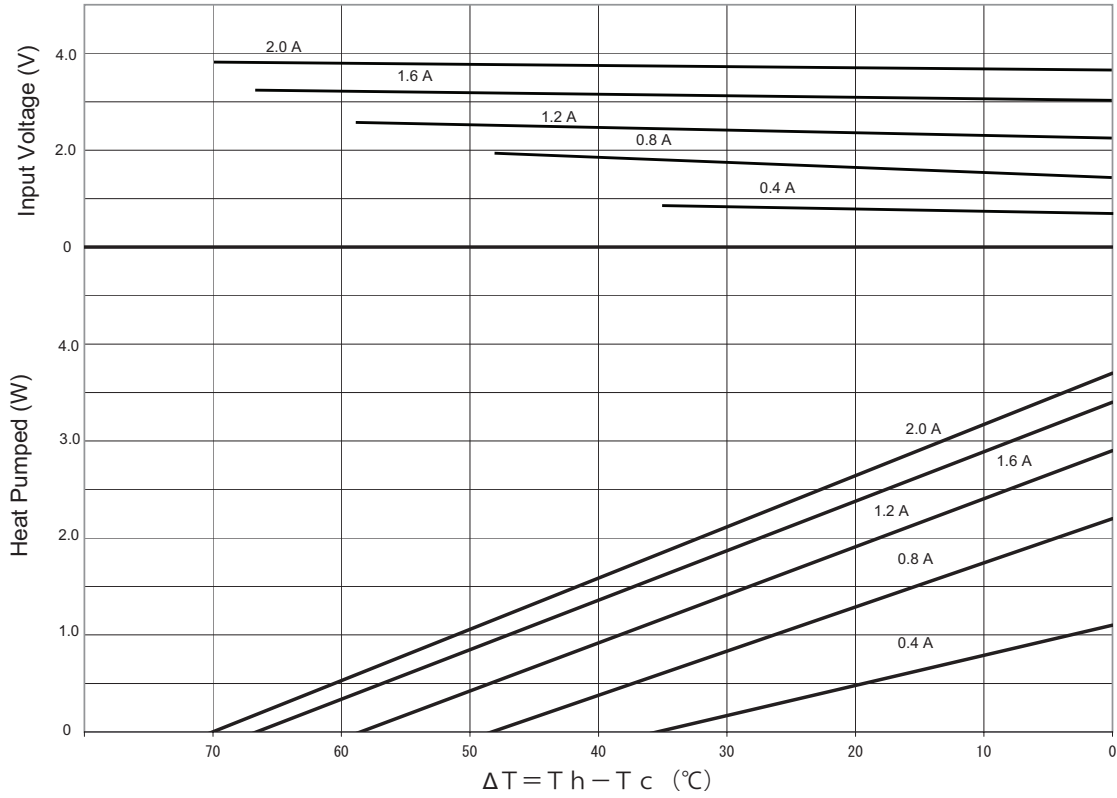


	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

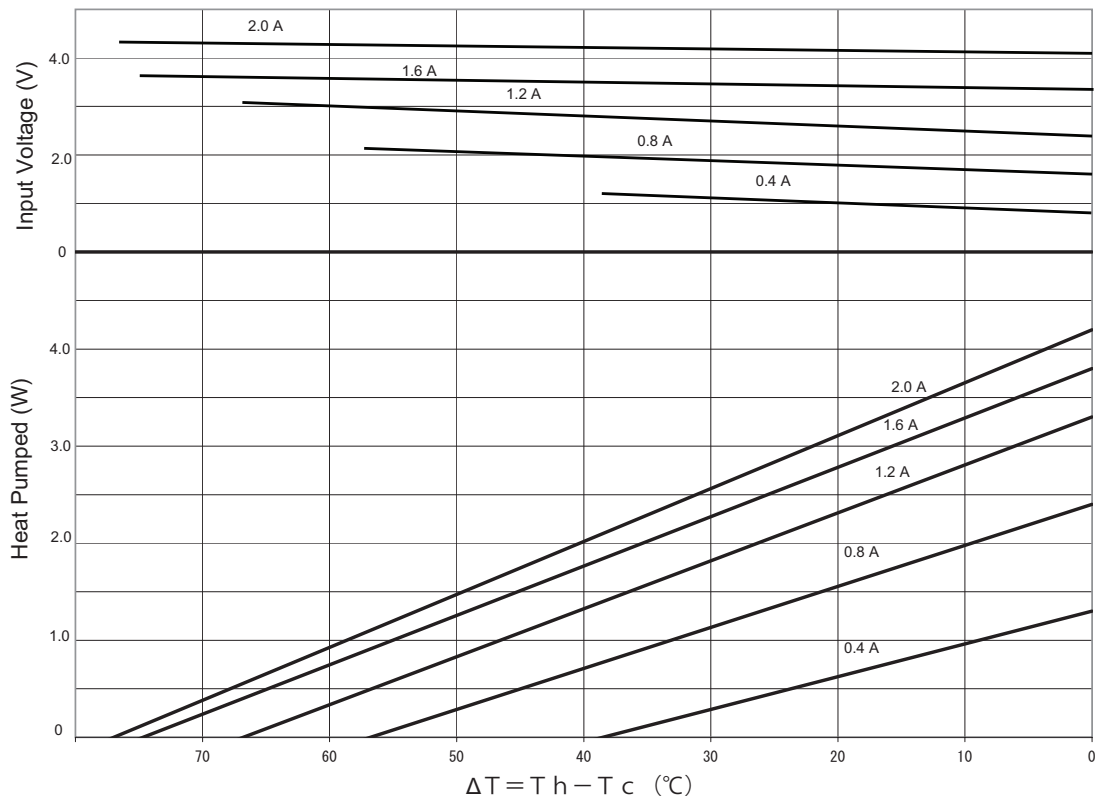


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP20151	15 ±0.3	15 ±0.3	5.02 ±0.1
CP20251	20 ±0.3	20 ±0.3	5.02 ±0.1
CP20351	30 ±0.3	30 ±0.3	5.02 ±0.1

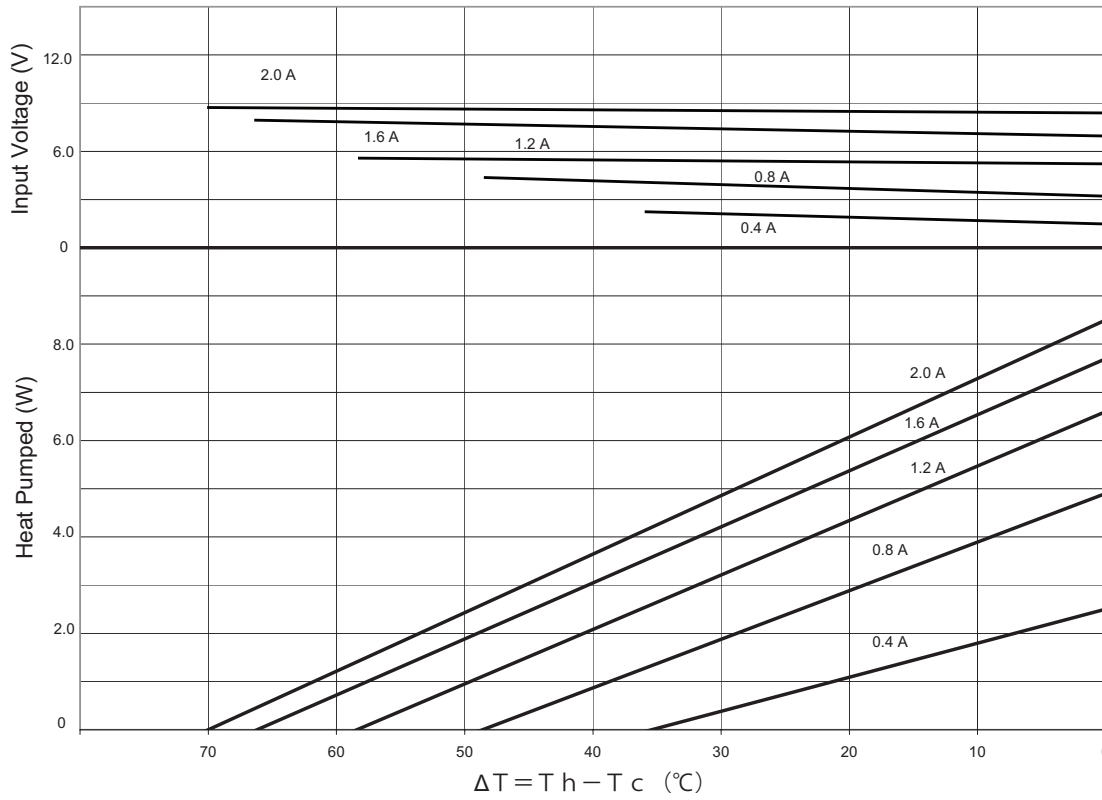
### CP20151 PERFORMANCE (Th=27°C)



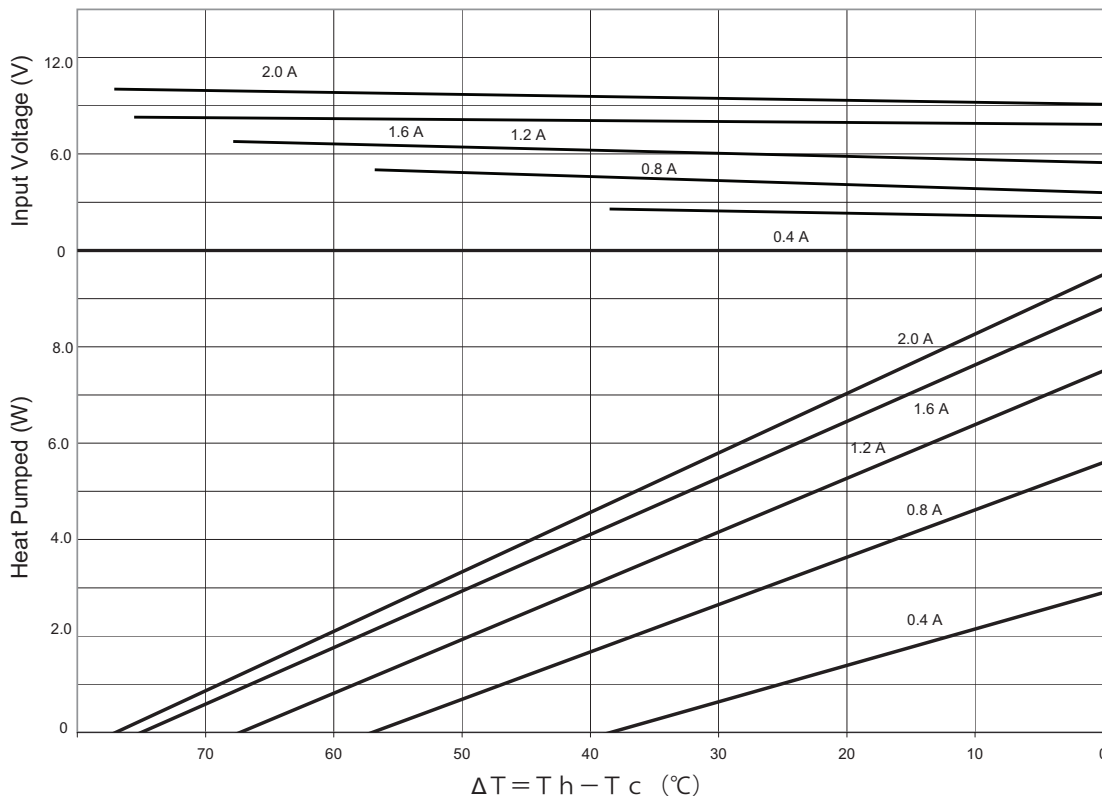
### CP20151 PERFORMANCE (Th=50°C)



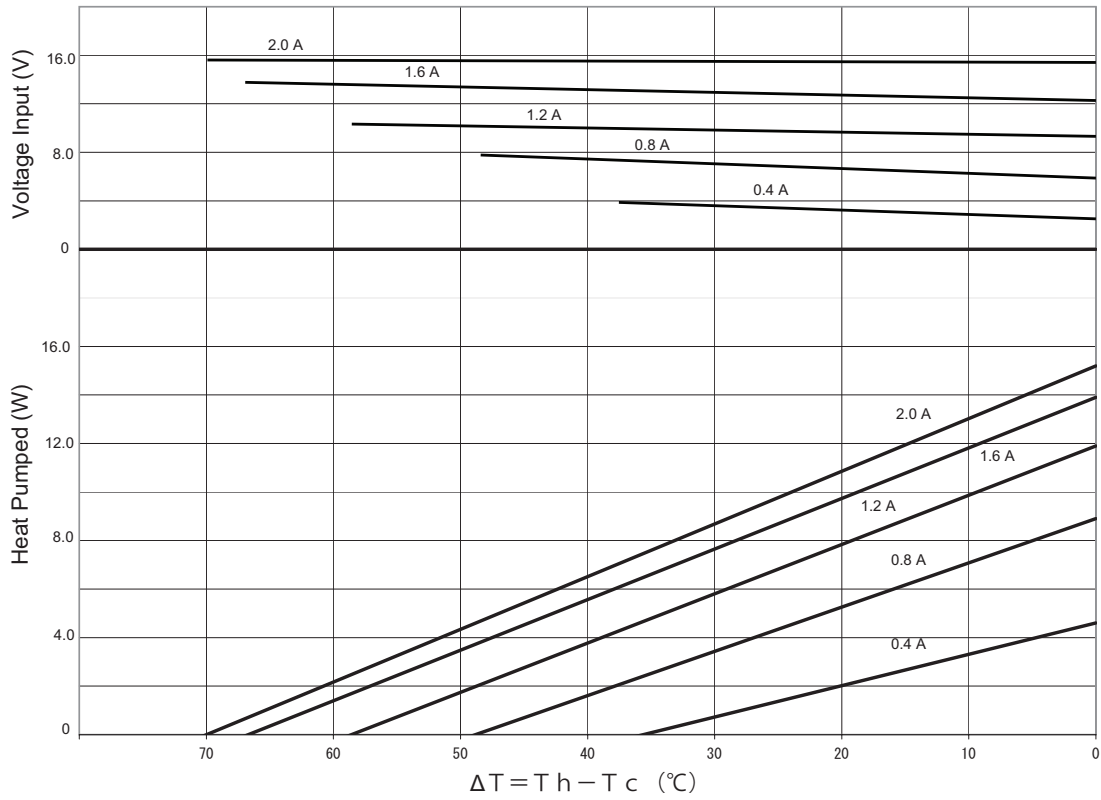
## CP20251 PERFORMANCE (Th=27°C)



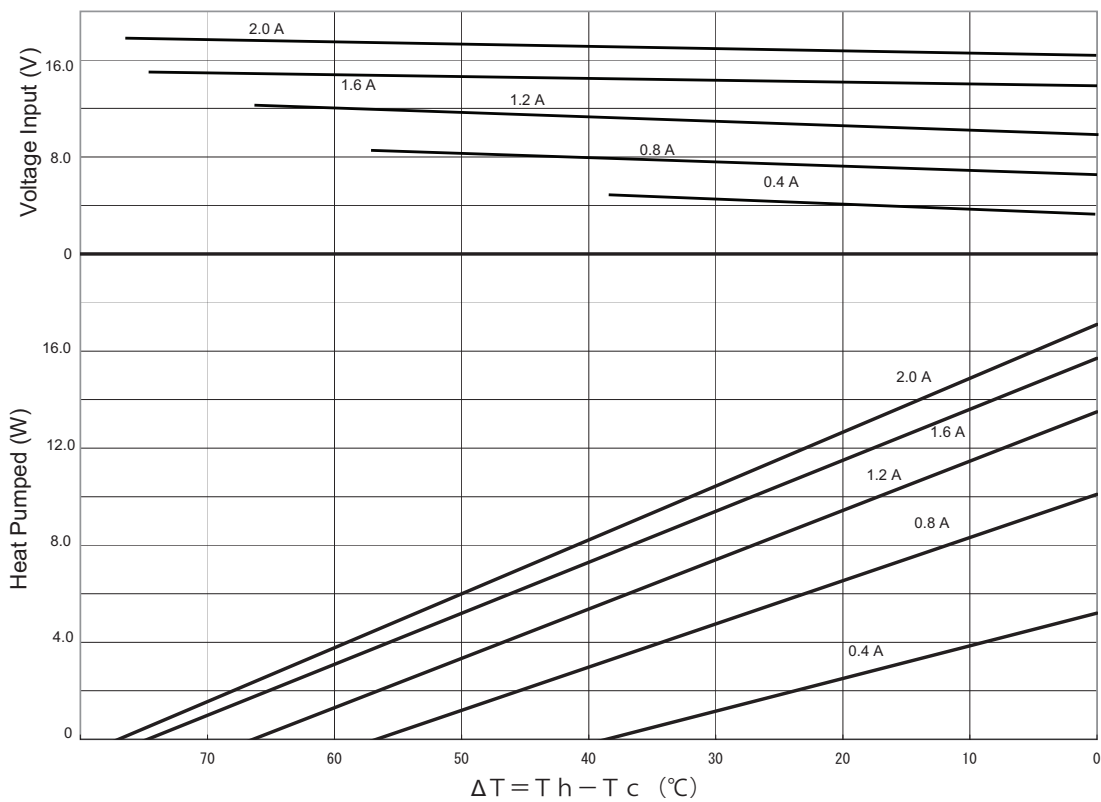
## CP20251 PERFORMANCE (Th=50°C)



### CP20351 PERFORMANCE (Th=27°C)



### CP20351 PERFORMANCE (Th=50°C)



## REVISION HISTORY

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rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/07/2012
1.02	changed thickness of all models	09/20/2018

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



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