

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

FEATURES

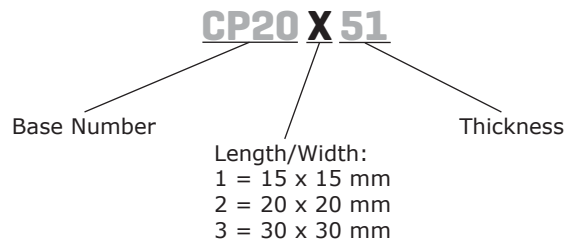
- solid state device
- small and lightweight
- precise temperature control
- quiet operation



MODEL	input voltage max (V)	input current max (A)	output Qmax ¹		output ΔTmax ²	
			T _h =27°C (W)	T _h =50°C (W)	T _h =27°C (°C)	T _h =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_{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

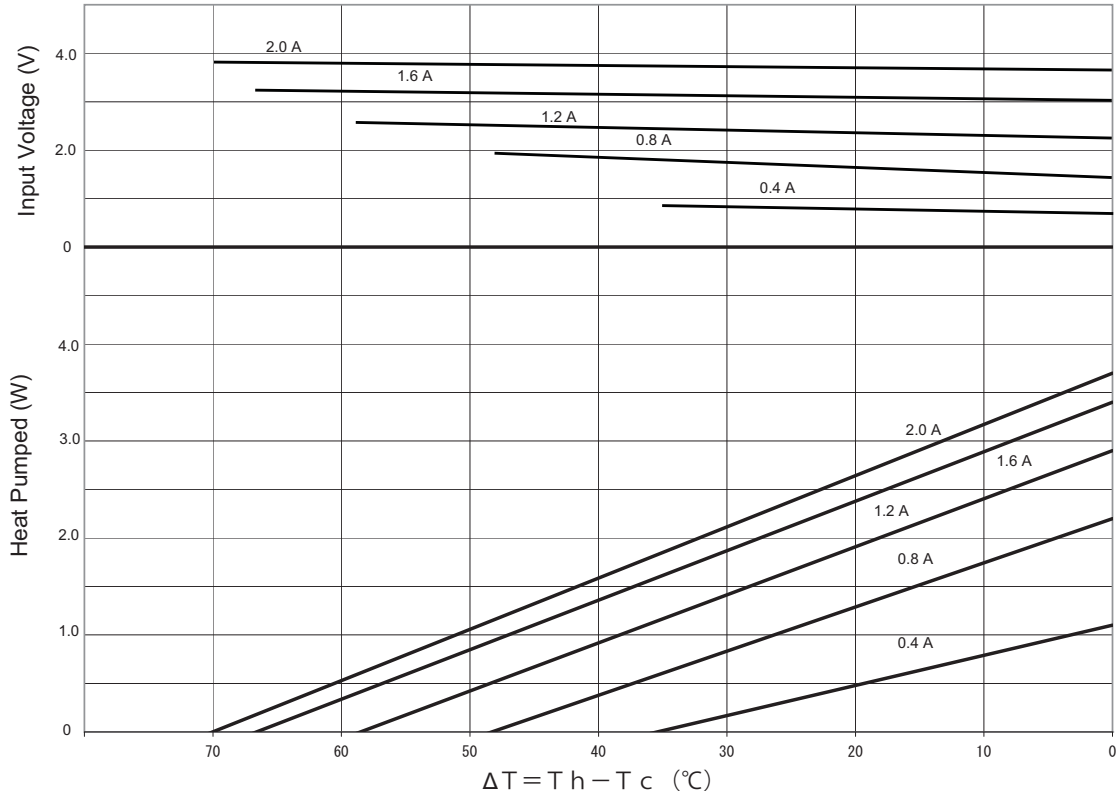


GENERAL

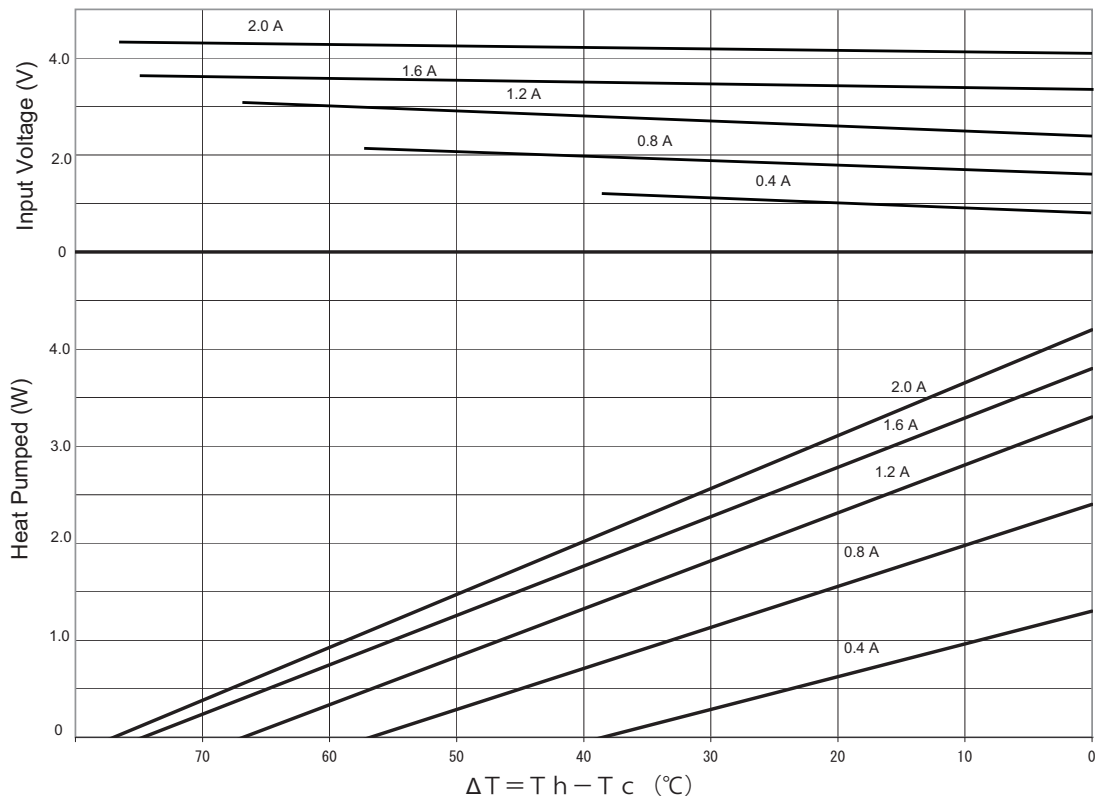
parameter	conditions/description	min	typ	max	units
internal resistance ³	CP20151	1.44	1.6	1.76	Ω
	CP20251	3.33	3.7	4.07	Ω
	CP20351	6.03	6.7	7.37	Ω
solder melting temperature	connection between thermoelectric pairs			138	°C
assembly compression				98.07	N/cm ²
				10	kgf/cm ²
hot side plate				80	°C
MTBF				200,000	hours

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

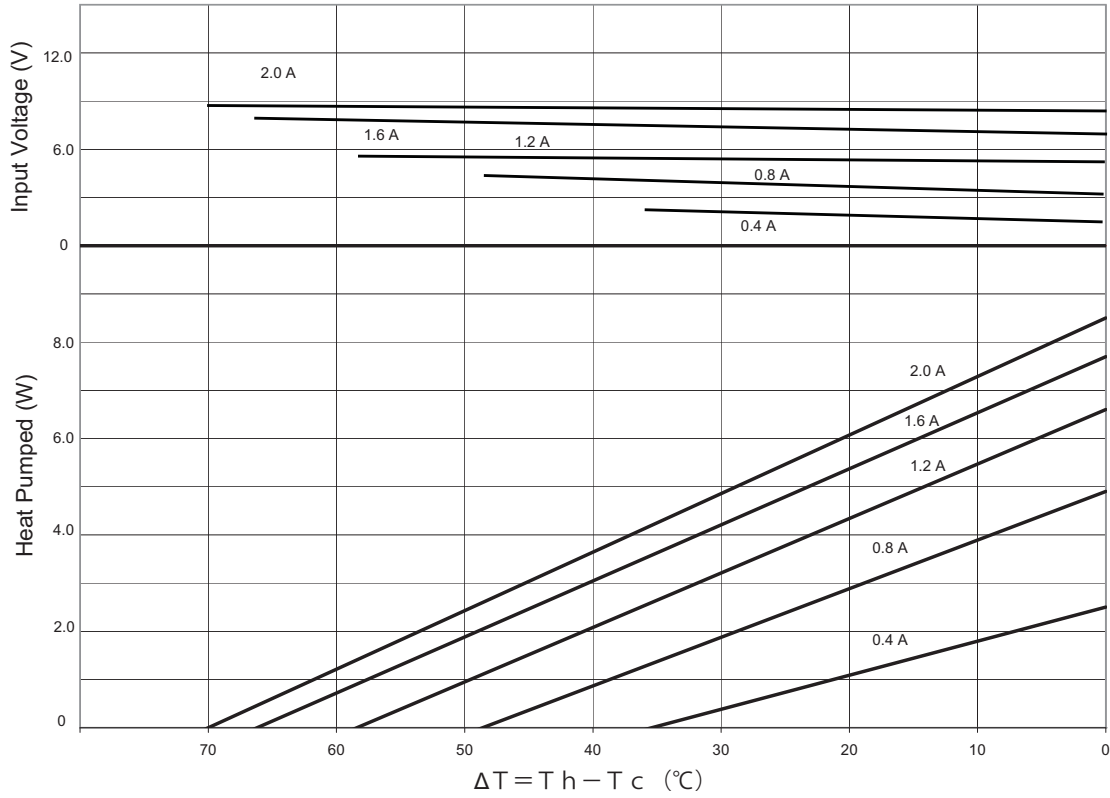
CP20151 PERFORMANCE (Th=27°C)



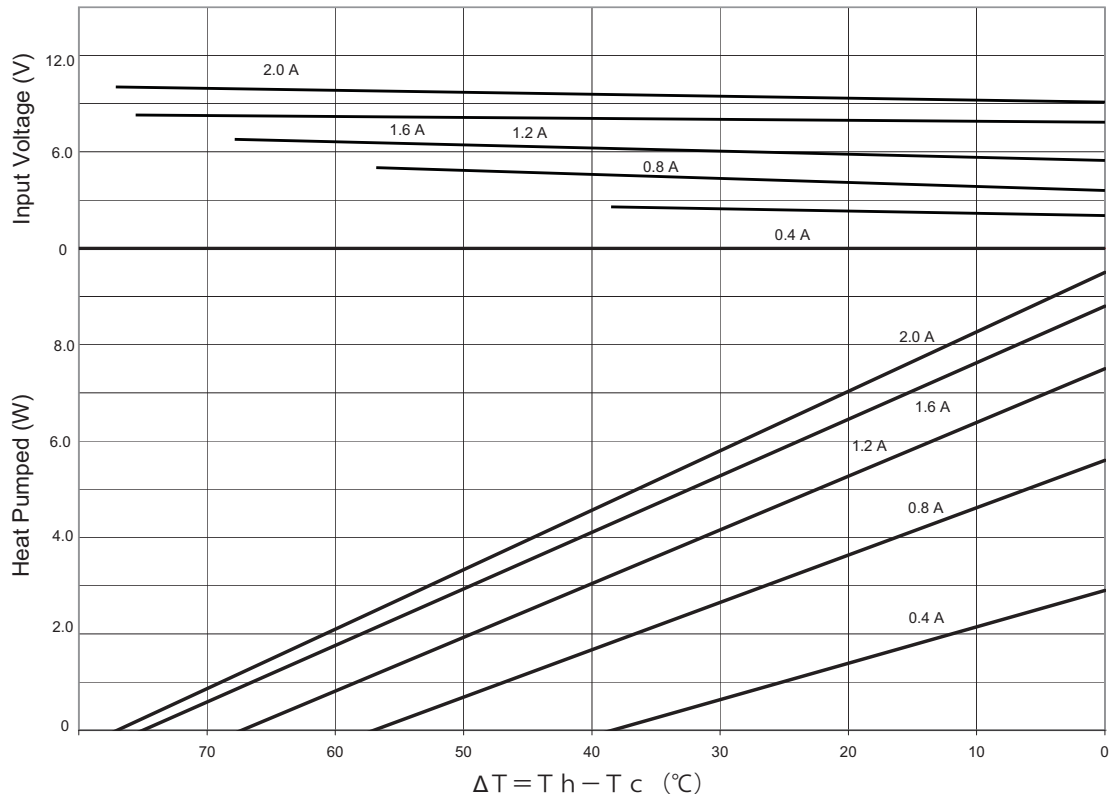
CP20151 PERFORMANCE (Th=50°C)



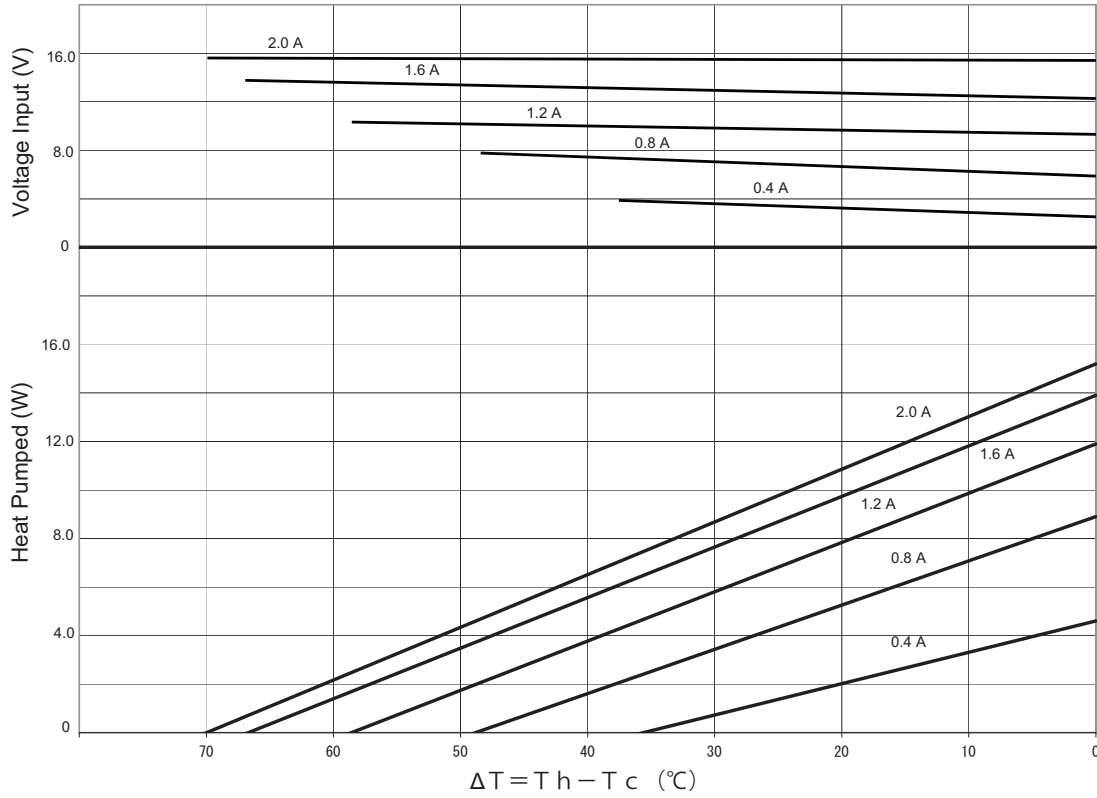
CP20251 PERFORMANCE (Th=27°C)



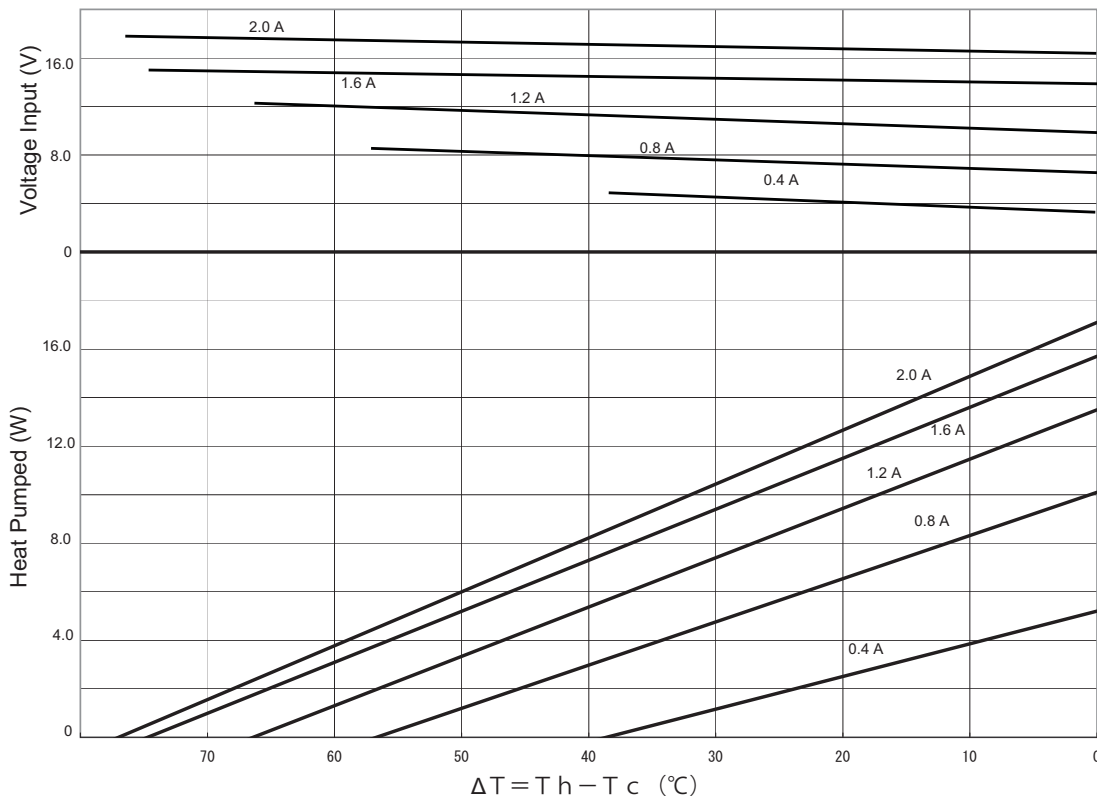
CP20251 PERFORMANCE (Th=50°C)



CP20351 PERFORMANCE (Th=27°C)

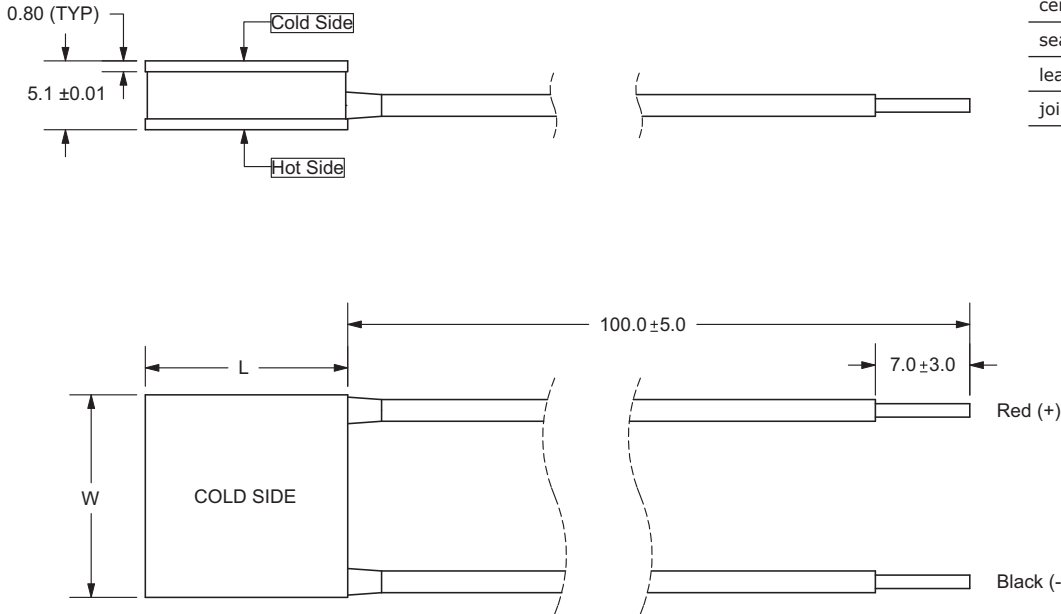


CP20351 PERFORMANCE (Th=50°C)

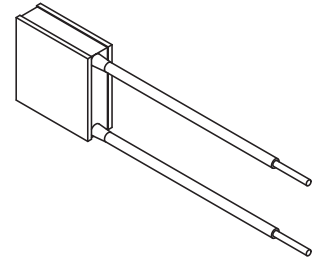


MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	Al ₂ 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 ± 0.3
CP20251	20 x 20 ± 0.3
CP20351	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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