



## SERIES: CP08-M | DESCRIPTION: PELTIER MODULE

### FEATURES

- solid state device
- micro size
- precise temperature control
- quiet operation

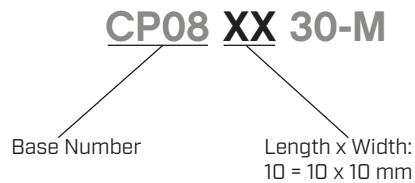


### MODEL

	input voltage <sup>1</sup>	input current <sup>2</sup>	output Qmax <sup>3</sup>		output ΔTmax <sup>4</sup>	
	max [Vdc]	max [A]	T <sub>h</sub> =27°C [W]	T <sub>n</sub> =50°C [W]	T <sub>h</sub> =27°C [°C]	T <sub>n</sub> =50°C [°C]
CP081030-M	8.8	0.8	3.7	4.2	68	75

Notes: 1. Maximum voltage at ΔT max and T<sub>n</sub>=27°C  
 2. Maximum current to achieve ΔT max  
 3. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and ΔT=0°C  
 4. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

### PART NUMBER KEY



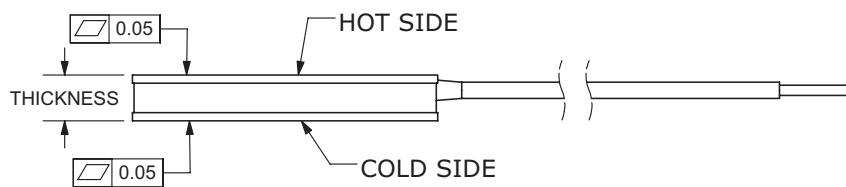
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance <sup>1</sup>		8.865	9.85	10.835	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
hot side plate				80	°C
RoHS	yes				

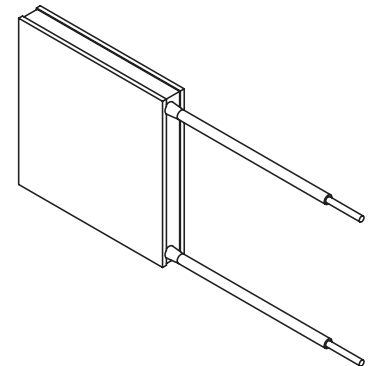
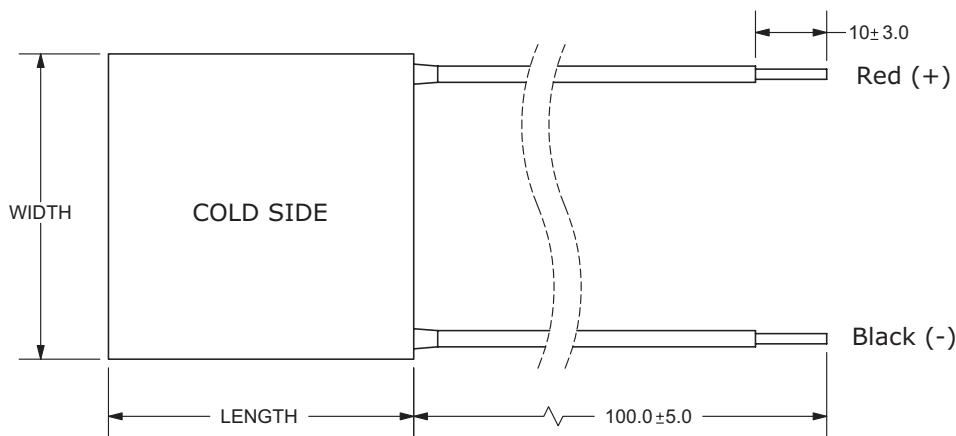
Note: 1. Measured by AC 4-terminal method at 25°C

## MECHANICAL DRAWING

units: mm

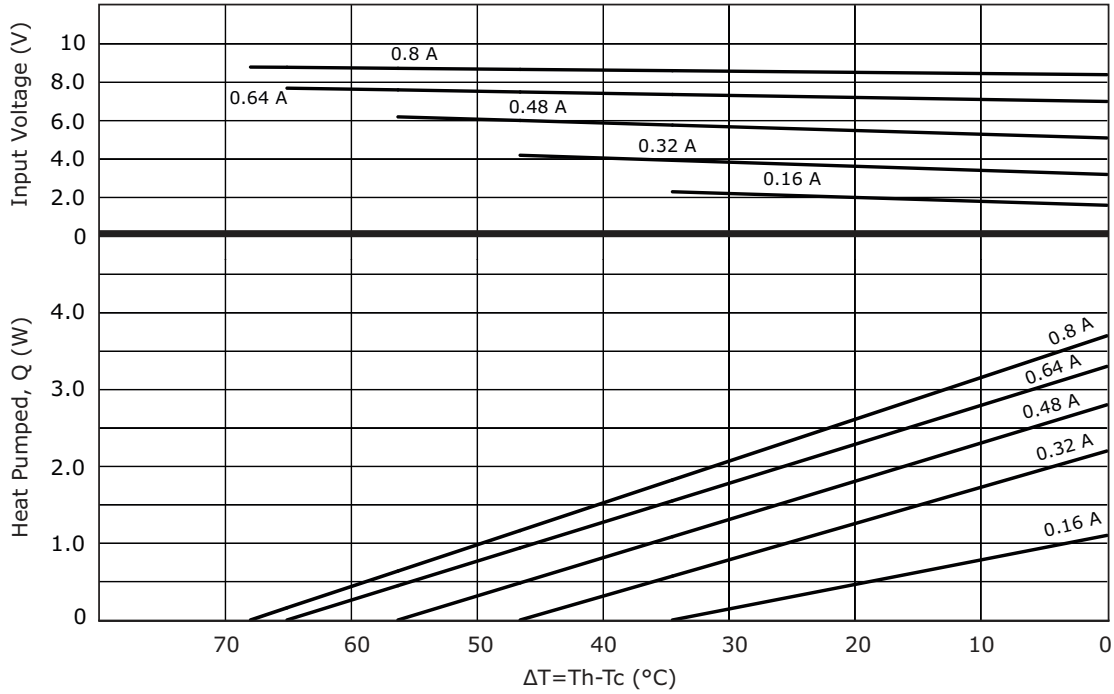


	MATERIAL	PLATING
ceramic plate	96% $Al_2O_3$	
wire leads	28 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

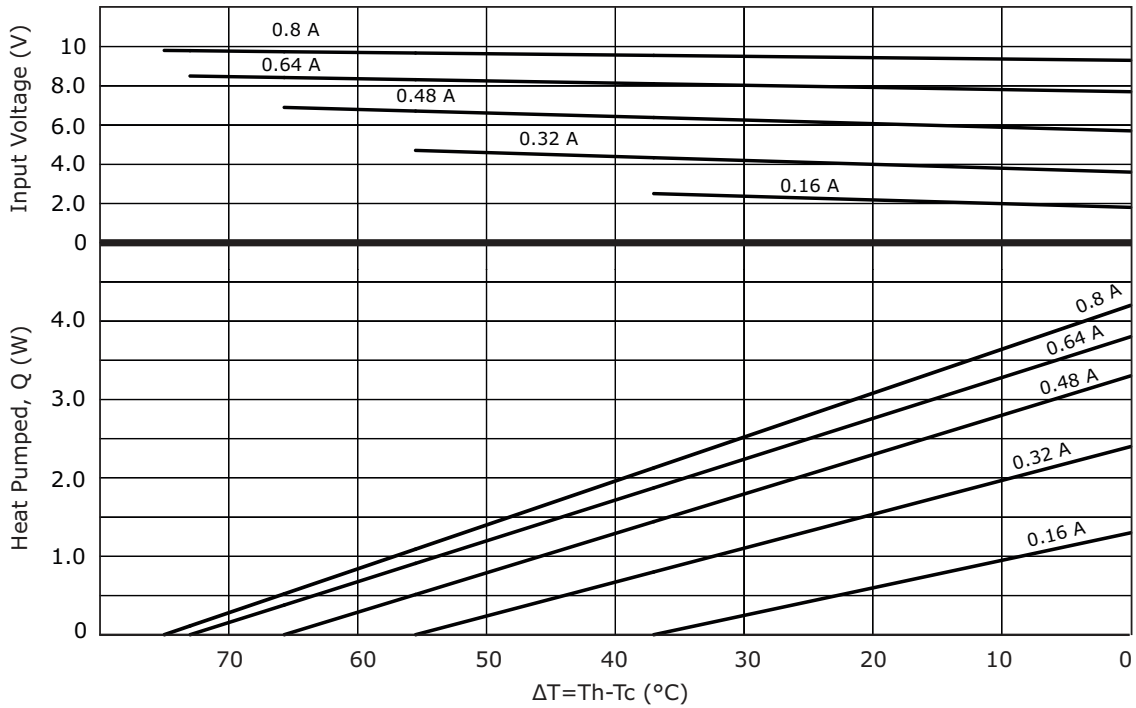


MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP081030-M	10 ± 0.3	10 ± 0.3	3.0 ± 0.1

## PERFORMANCE (Th=27°C)



## PERFORMANCE (Th=50°C)



## REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	brand update	10/28/2019
1.02	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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