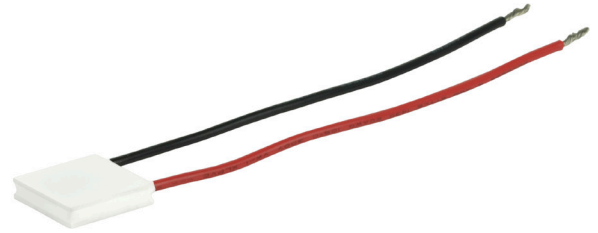


**SERIES:** CP08-M | **DESCRIPTION:** PELTIER MODULE

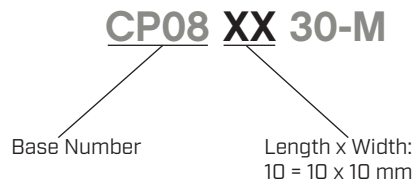
**FEATURES**

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


**MODEL**

	input voltage <sup>1</sup> max [Vdc]	input current <sup>2</sup> max [A]	$T_h=27^{\circ}\text{C}$ [W]	output $Q_{\max}^3$ $T_h=50^{\circ}\text{C}$ [W]	$T_h=27^{\circ}\text{C}$ [°C]	output $\Delta T_{\max}^4$ $T_h=50^{\circ}\text{C}$ [°C]
CP081030-M	8.8	0.8	3.7	4.2	68	75

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

**PART NUMBER KEY**


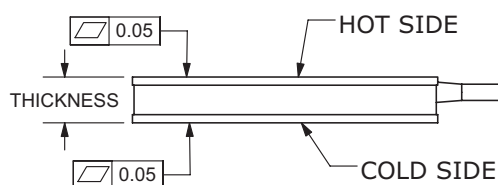
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance <sup>1</sup>		8.865	9.85	10.835	$\Omega$
solder melting temperature	connection between thermoelectric pairs	235			$^{\circ}\text{C}$
assembly compression				0.8	MPa
hot side plate				80	$^{\circ}\text{C}$
RoHS	yes				

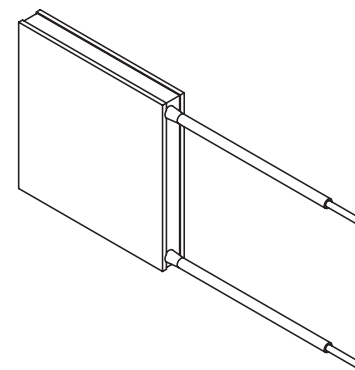
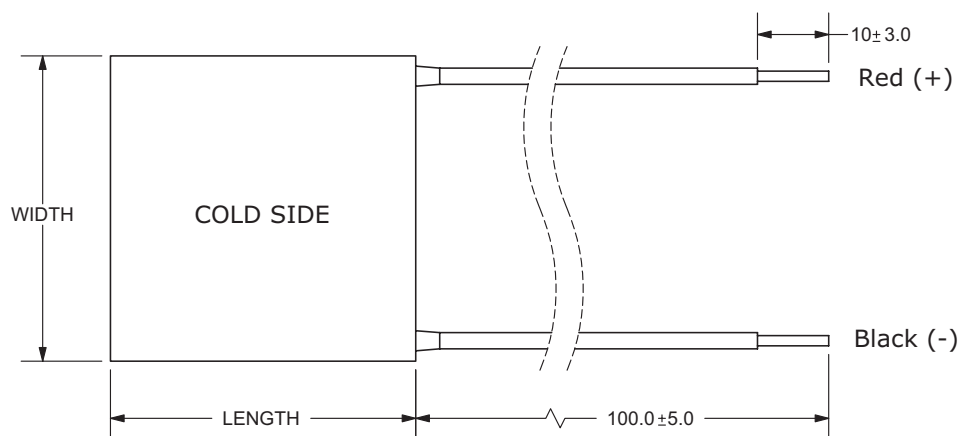
Note: 1. Measured by AC 4-terminal method at 25 $^{\circ}\text{C}$

## MECHANICAL DRAWING

units: mm

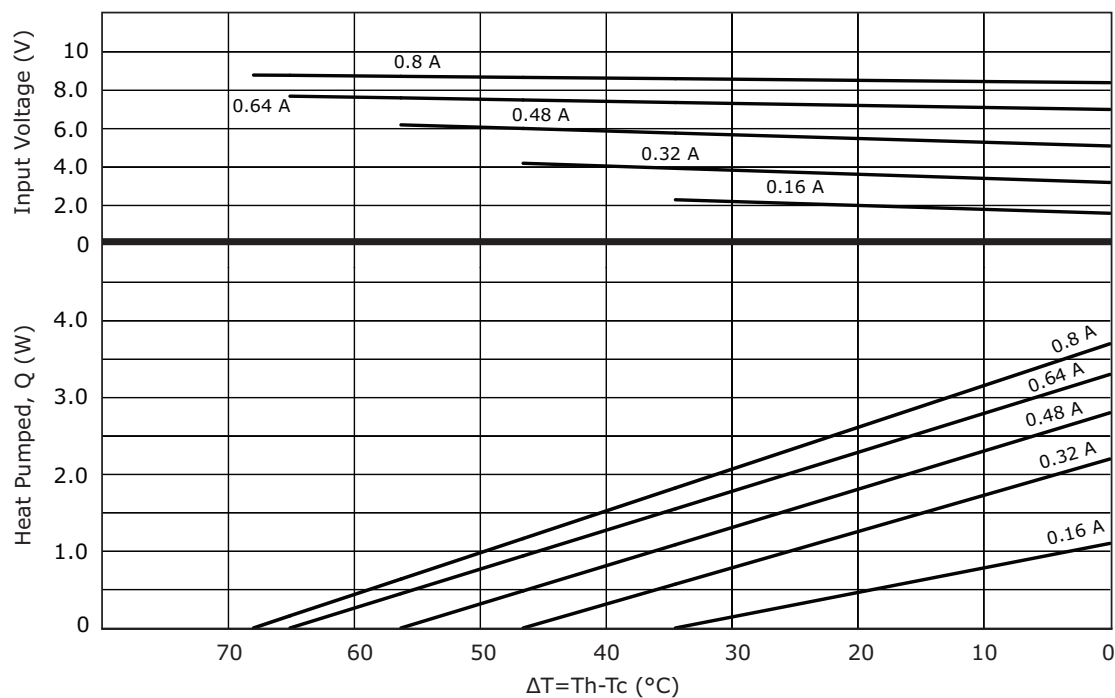


	MATERIAL	PLATING
ceramic plate	96% $\text{Al}_2\text{O}_3$	
wire leads	28 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

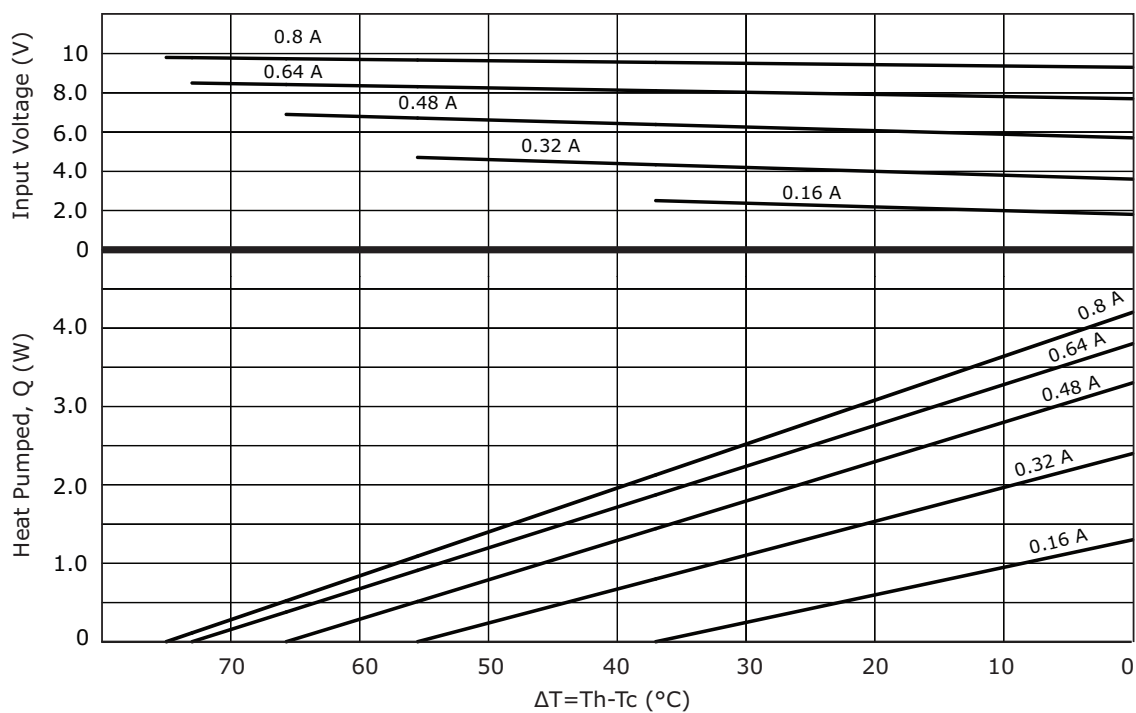


MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP081030-M	10 ± 0.3	10 ± 0.3	3.0 ± 0.1

## 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.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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