Additional Resources: Product Page | 3D Model

**CUI** DEVICES

date 10/28/2019

page 1 of 4

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

#### **FEATURES**

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





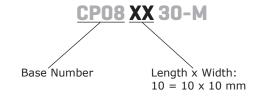
MODEL	input input output voltage¹ current² Qmax³		•	output ∆Tmax⁴		
	max (Vdc)	max (A)	T <sub>h</sub> =27°C (W)	T <sub>h</sub> =50°C (W)	<b>T<sub>h</sub>=27°C</b> (°C)	T <sub>h</sub> =50°C (°C)
CP081030-M	8.8	0.8	3.7	4.2	68	75

Notes:

- 1. Maximum voltage at  $\Delta T$  max and  $T_{\rm h}{=}27^{\rm o}C$  2. Maximum current to achieve  $\Delta T$  max

- 3. Maximum heat absorbed at cold side occurs at  $I_{max'}$   $V_{max'}$  and  $\Delta T=0$ °C 4. Maximum temperature difference occurs at  $I_{max'}$   $V_{max'}$  and Q=0W ( $\Delta T$  max measured in a vacuum at 1.3 Pa)

#### **PART NUMBER KEY**



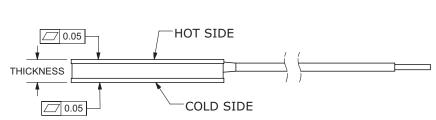
## **SPECIFICATIONS**

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

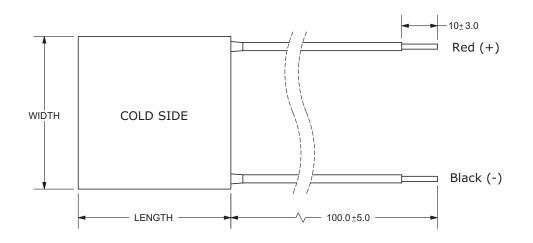
Note: 1. Measured by AC 4-terminal method at 25°C

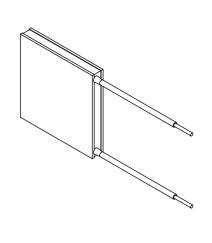
### **MECHANICAL DRAWING**

units: mm



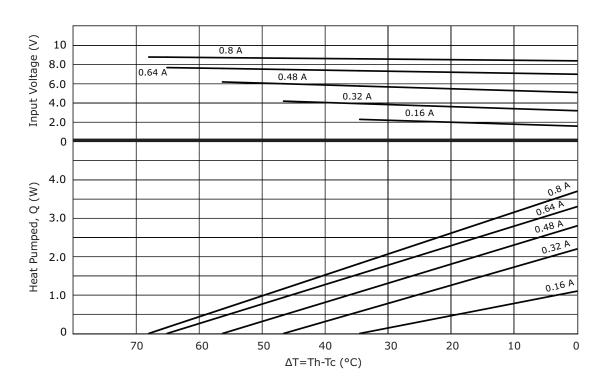
	MATERIAL	PLATING		
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>			
wire leads	28 AWG	tin		
sealer	silicon rubber 703 RTV (between cold and hot side plates)			
joint cover	silicon rubber 703 RTV			
marking	P/N & S/N print surface	S/N printed on cold side		



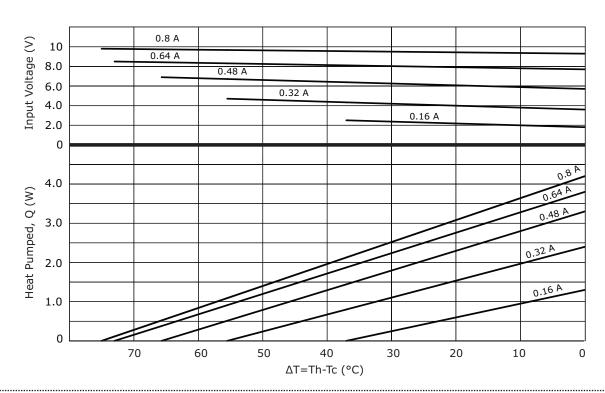


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP081030-M	10 ±0.3	10 ±0.3	3.0 ±0.1

## PERFORMANCE (Th=27°C)



# PERFORMANCE (Th=50°C)



Additional Resources: Product Page | 3D Model

CUI Devices | SERIES: CP08-M | DESCRIPTION: PELTIER MODULE date 10/28/2019 | page 4 of 4

#### **REVISION HISTORY**

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

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

# **CUI** DEVICES

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

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