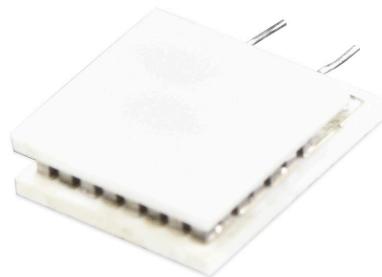


# CUI DEVICES

## SERIES: CP15-M | DESCRIPTION: PELTIER MODULE

### FEATURES

- micro size (less than 10 x 10 mm)
- wide  $\Delta T$  max
- $Q_{max}$  of 3.5 W
- precise temperature control
- solid state construction



### MODEL

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 $Q_{max}$ <sup>4</sup> $T_h=27^\circ\text{C}$ (W)	output $Q_{max}$ <sup>4</sup> $T_h=50^\circ\text{C}$ (W)	output $\Delta T_{max}$ <sup>5</sup> $T_h=27^\circ\text{C}$ ( $^\circ\text{C}$ )	output $\Delta T_{max}$ <sup>5</sup> $T_h=50^\circ\text{C}$ ( $^\circ\text{C}$ )
CP151188-271	3.8	1.5	1.93	3.2	3.5	70	77

Notes:

1. Maximum voltage at  $\Delta T$  max and  $T_h=27^\circ\text{C}$
2. Maximum current to achieve  $\Delta T$  max
3. Measured by AC 4-terminal method at  $25^\circ\text{C}$
4. Maximum heat absorbed at cold side occurs at  $I_{max}$ ,  $V_{max}$ , and  $\Delta T=0^\circ\text{C}$
5. 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)

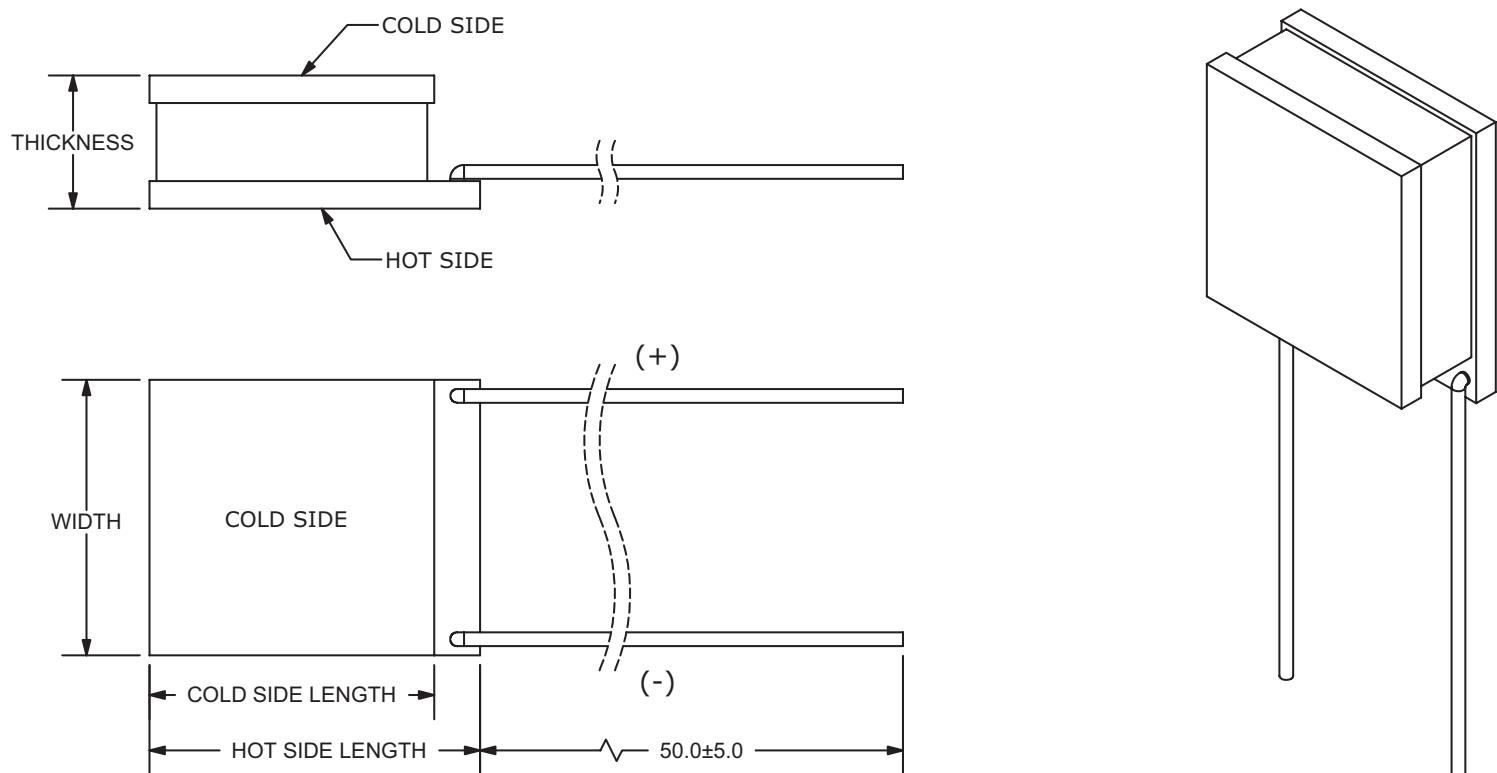
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

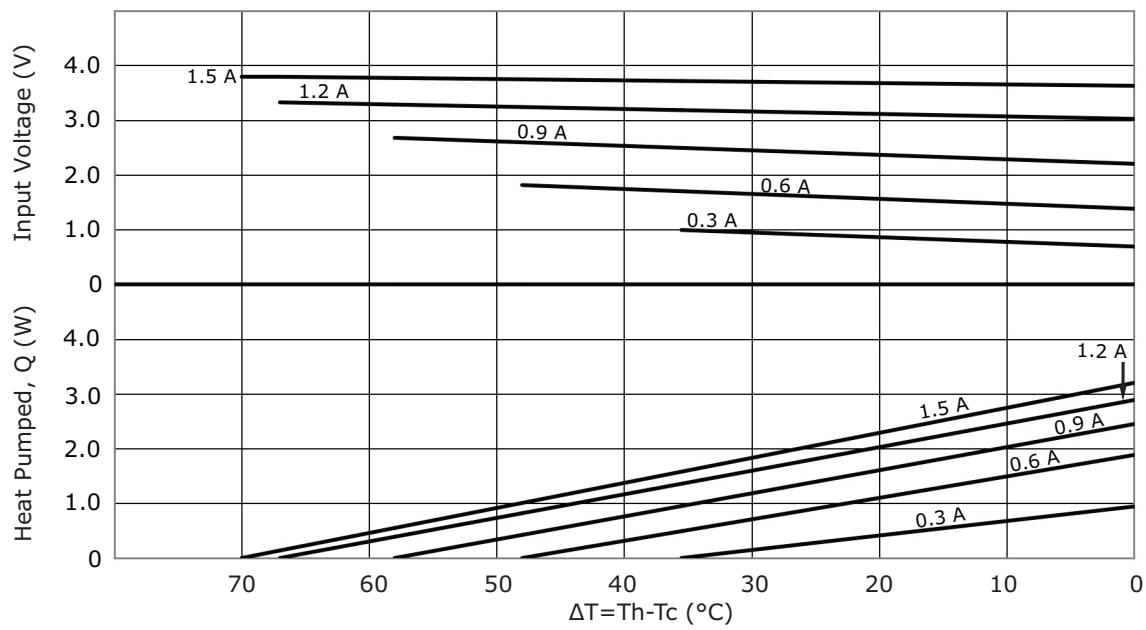
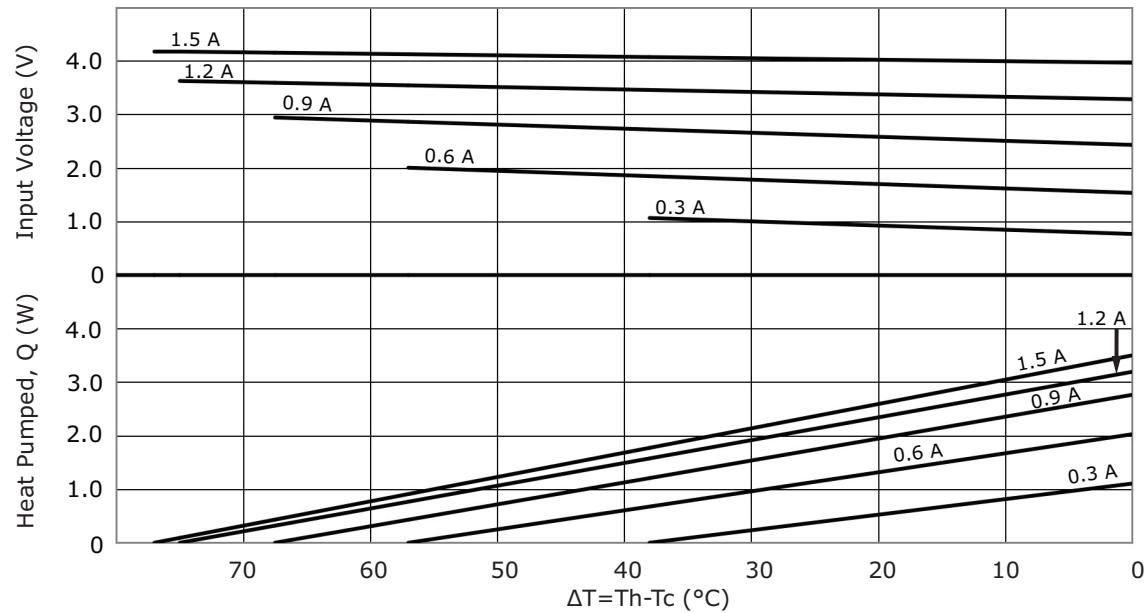
## MECHANICAL DRAWING

units: mm

	MATERIAL	PLATING
ceramic plate	96% $\text{Al}_2\text{O}_3$	
wire leads	$\varnothing 0.25\text{--}0.3$ mm annealed copper	tin
sealer	no sealing	



MODEL NO.	HOT SIDE LENGTH (mm)	COLD SIDE LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP151188-271	11.0 ±0.3	8.8 ±0.3	8.8 ±0.3	2.71 ±0.15

**CP151188-271 PERFORMANCE (Th=27°C)****CP151188-271 PERFORMANCE (Th=50°C)**

## REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020

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.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.