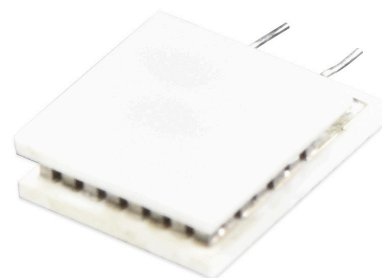


**SERIES:** CP15-M | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- 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>		output $\Delta T_{max}$ <sup>5</sup>	
				$T_h=27^\circ\text{C}$ (W)	$T_h=50^\circ\text{C}$ (W)	$T_h=27^\circ\text{C}$ ( $^\circ\text{C}$ )	$T_h=50^\circ\text{C}$ ( $^\circ\text{C}$ )
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)

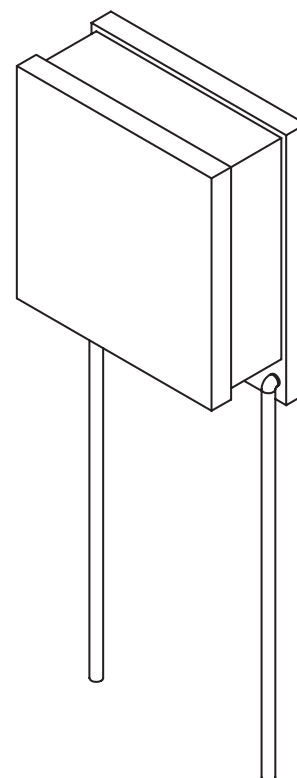
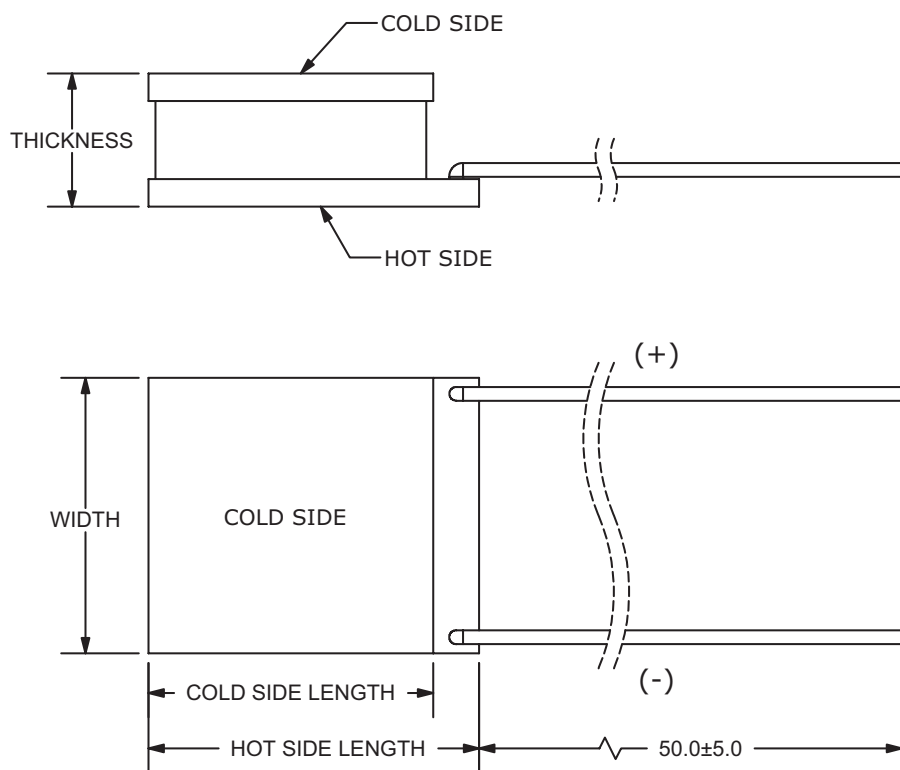
## SPECIFICATIONS

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

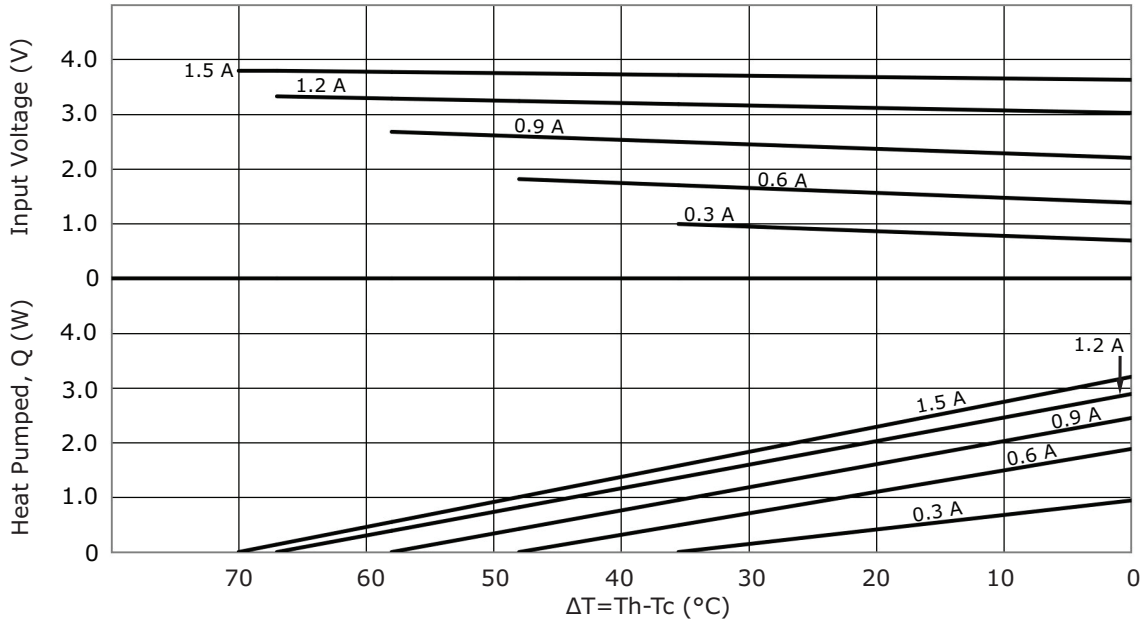
units: mm

	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads	Ø0.25-0.3 mm annealed copper	tin
sealer	no sealing	

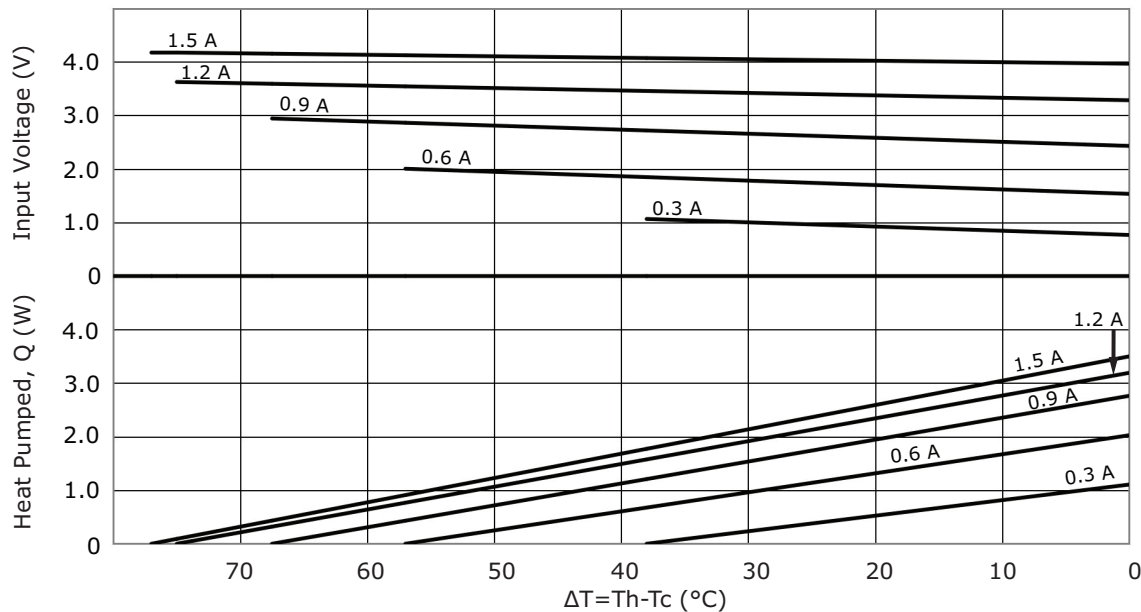


MODEL NO.	HOT SIDE LENGTH (mm)	COLD SIDE LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP151188-271	11.0 ±0.3	8.8 ±0.3	8.8 ±0.3	2.71 ±0.15

### CP151188-271 PERFORMANCE (Th=27°C)



### CP151188-271 PERFORMANCE (Th=50°C)



## REVISION HISTORY

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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.

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# CUI DEVICES

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

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