



SERIES: CP15-M | DESCRIPTION: PELTIER MODULE

FEATURES

- micro size [less than 10 x 10 mm]
- wide ΔT max
- Q_{max} of 3.5 W
- precise temperature control
- solid state construction



MODEL

	input voltage ¹ max [Vdc]	input current ² max [A]	internal resistance ³ typ [$\Omega \pm 10\%$]	output Q_{max} ⁴		output ΔT_{max} ⁵	
				$T_h=27^{\circ}\text{C}$ [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 ΔT max and $T_h=27^{\circ}\text{C}$
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°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 $Q=0\text{W}$ (ΔT max measured in a vacuum at 1.3 Pa)

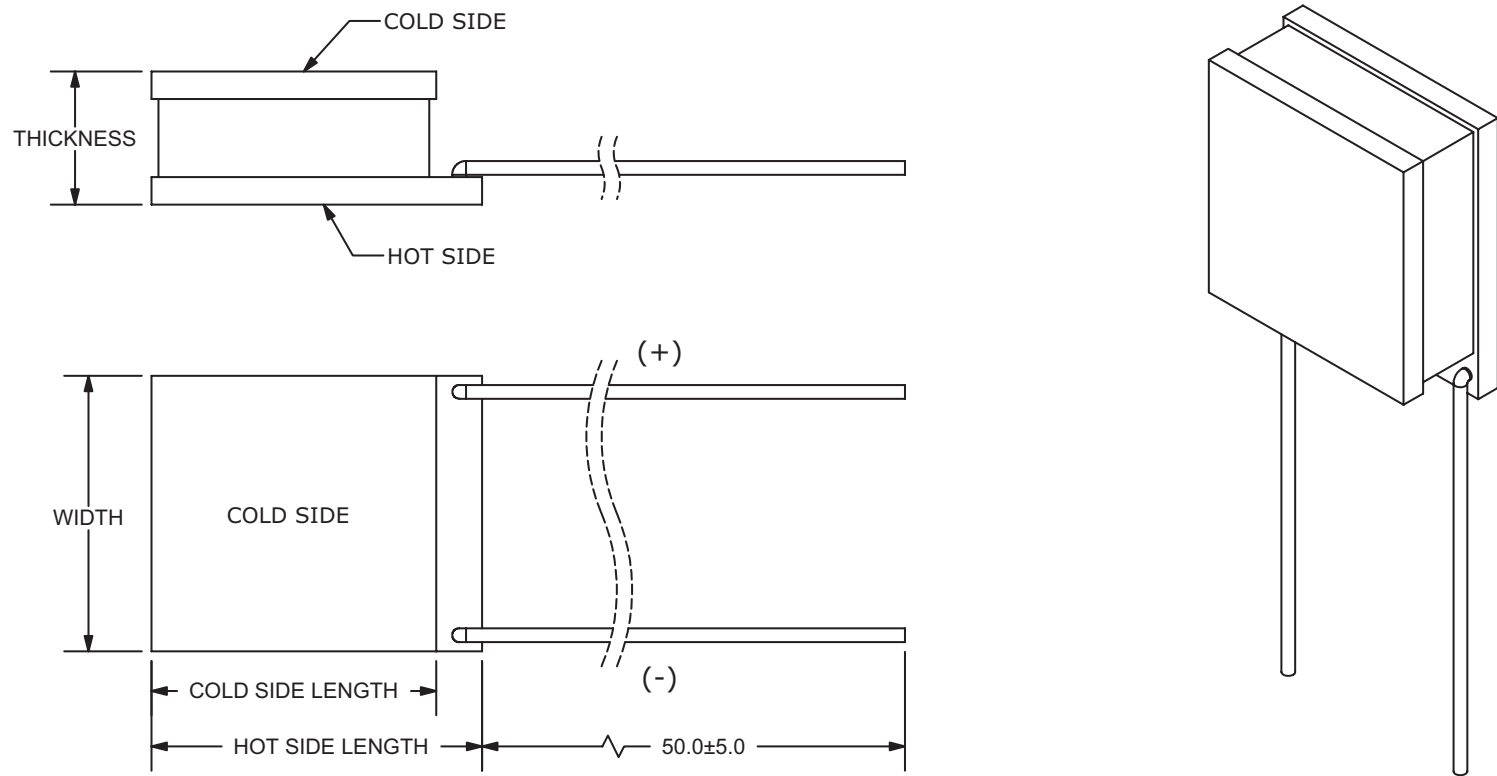
SPECIFICATIONS

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

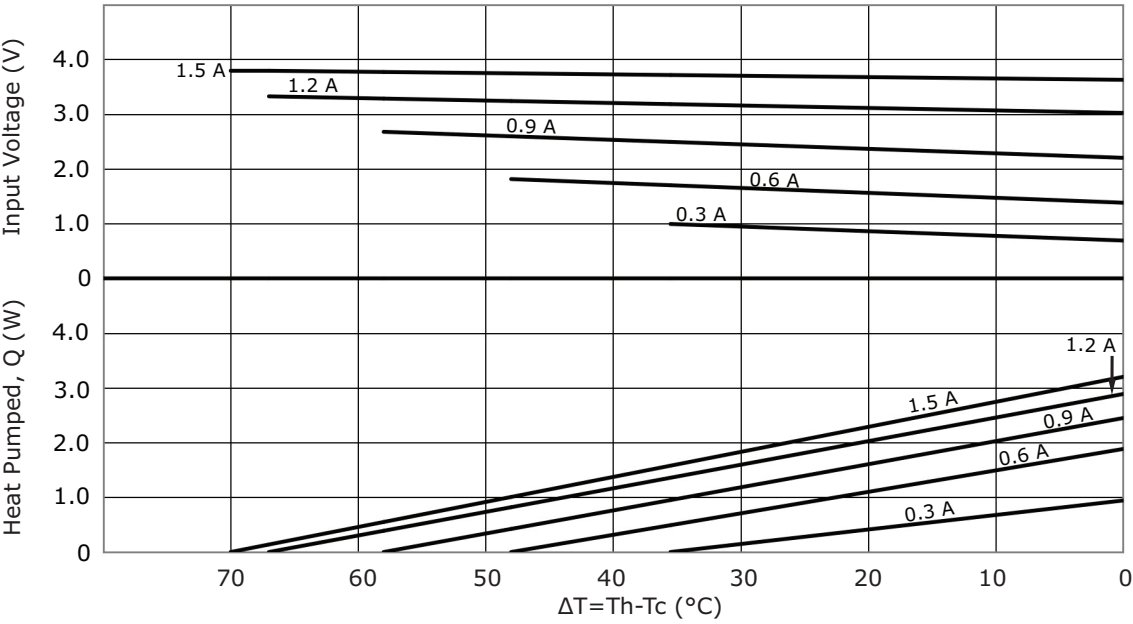
units: mm

	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	Ø0.25-0.3 mm annealed copper	tin
sealer	no sealing	

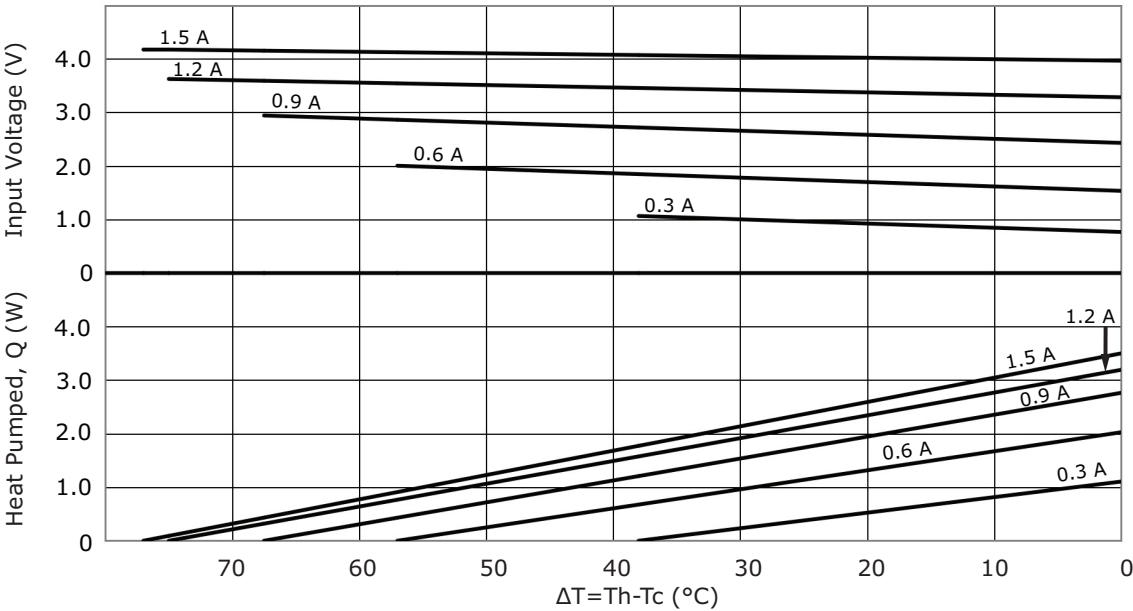


MODEL NO.	HOT SIDE LENGTH [mm]	COLD SIDE LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP151188-271	11.0 ± 0.3	8.8 ± 0.3	8.8 ± 0.3	2.71 ± 0.15

CP151188-271 PERFORMANCE (Th=27°C)



CP151188-271 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024

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



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

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