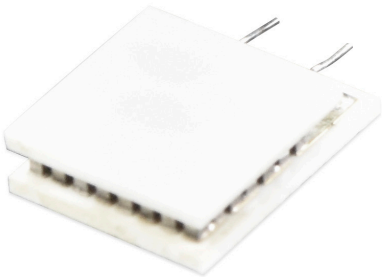




SERIES: CP15-M | DESCRIPTION: PELTIER MODULE

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)

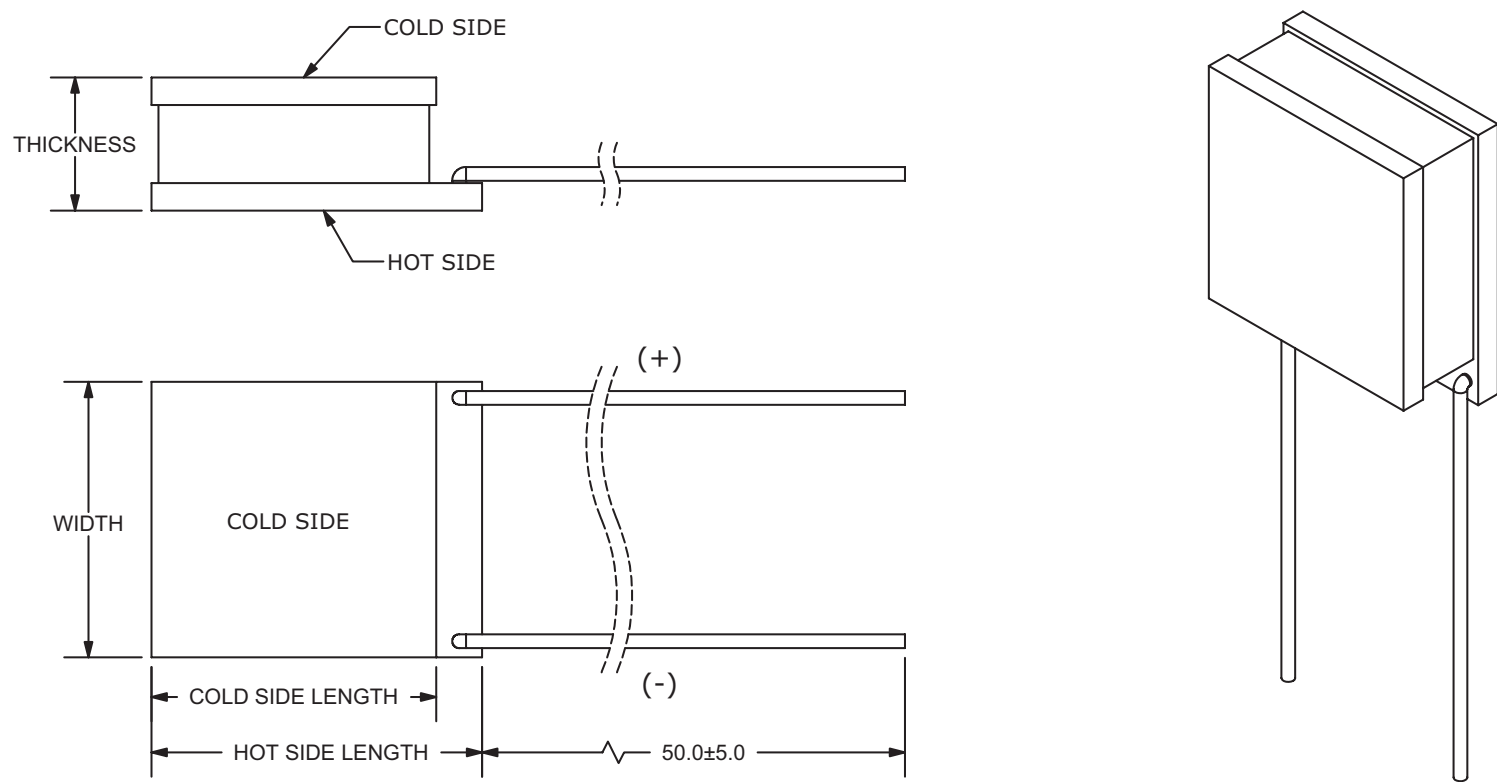
SPECIFICATIONS

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

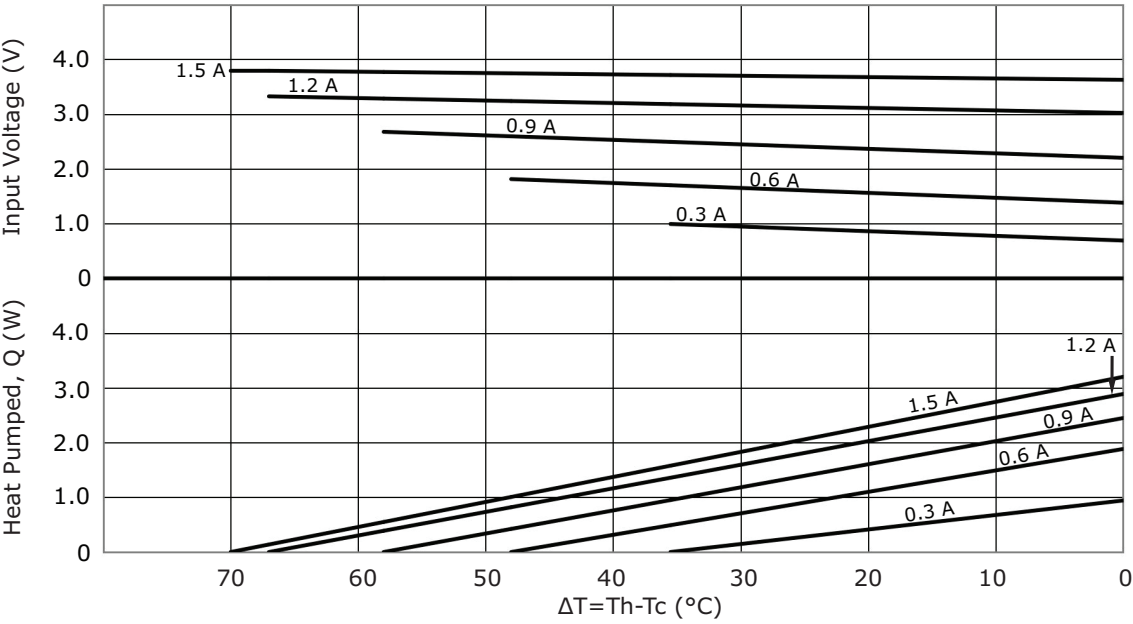
units: mm

	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	$\varnothing 0.25-0.3$ mm annealed copper	tin
sealer	no sealing	

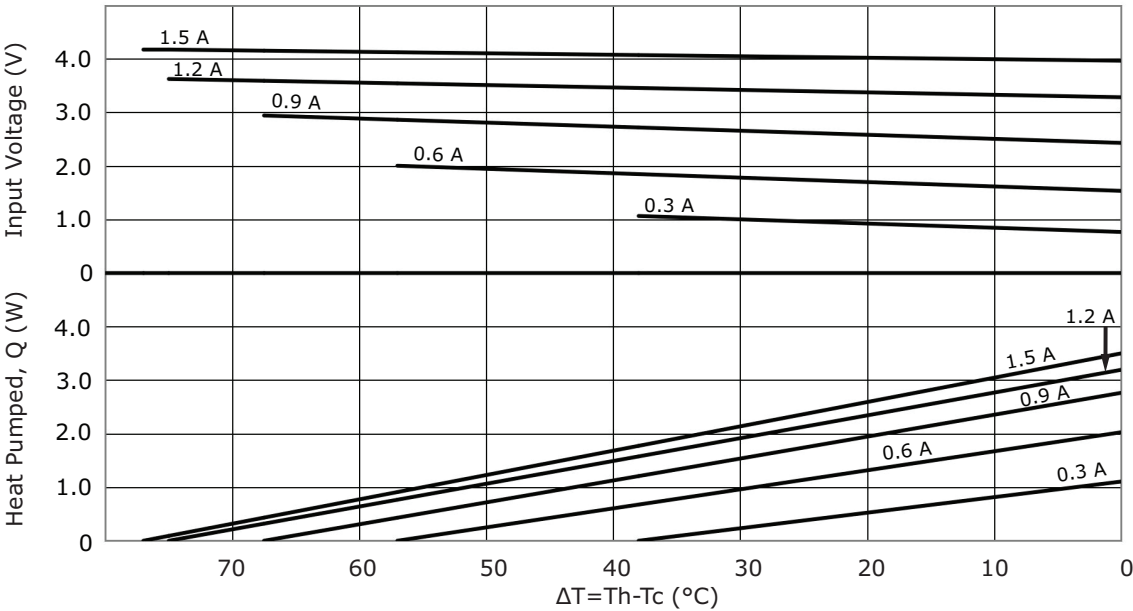


MODEL NO.	HOT SIDE LENGTH [mm]	COLD SIDE LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP151188-271	11.0 ±0.3	8.8 ±0.3	8.8 ±0.3	2.71 ±0.15

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.

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

Same Sky 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.

sameskydevices.com