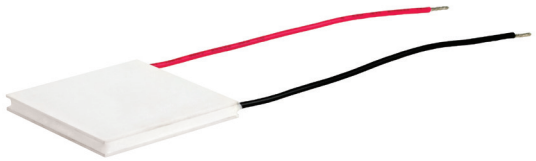
CUI Devices is now Same Sky! Learn More

SERIES: CP30 | DESCRIPTION: PELTIER MODULE

FEATURES

- solid state device
- small and lightweight
- precise temperature control
- quiet operation



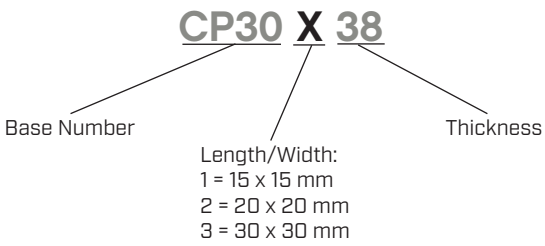
RoHS

MODEL

MODEL	input voltage max (V)	input current max (A)	output Qmax[1] T_h=27°C (W)	output Qmax[1] T_h=50°C (W)	output ΔTmax[2] T_h=27°C (°C)	output ΔTmax[2] T_h=50°C (°C)
CP30138	3.8	3	6.5	7.2	66	72
CP30238	8.6	3	15	16.7	66	72
CP30338	15.4	3	27	30.1	66	72

Notes: 1. maximum cooling capacity at I_{max}, V_{max}, and ΔT=0°C
2. maximum temperature difference at I_{max}, V_{max}, and Q=0W (maximum parameters are measured in a vacuum)

PART NUMBER KEY



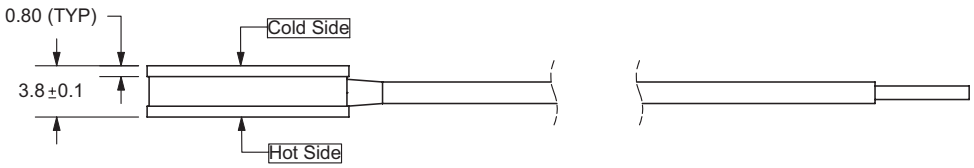
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance[3]	CP30138 CP30238 CP30338	0.9 2.07 3.6	1.0 2.3 4.0	1.1 2.53 4.4	Ω Ω Ω
solder melting temperature	connection between termoelectric pairs			138	°C
assembly compression				98.07 10	N/cm^2 kgf/cm^2
RoHS	yes				

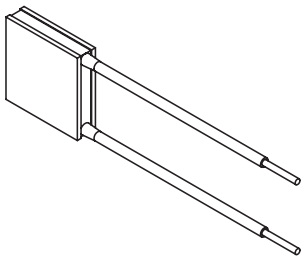
Notes: 3. measured by AC 4-terminal method at 25°C

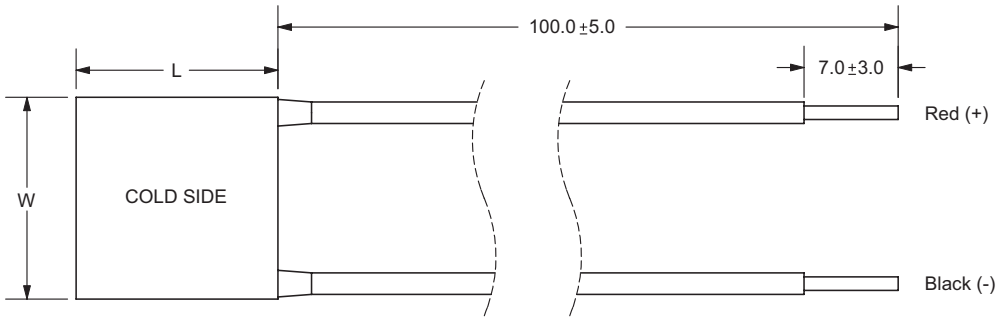
MECHANICAL DRAWING

units: mm



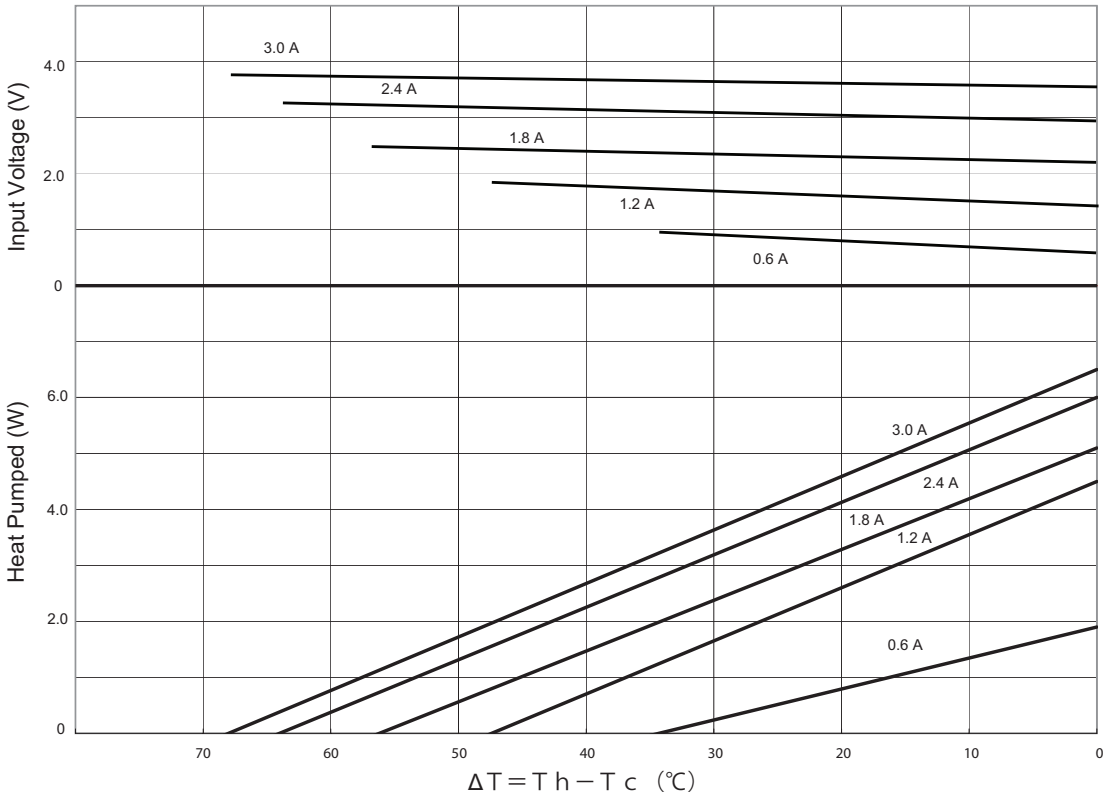
	MATERIAL	PLATING
ceramic plate	Al_2O_3 (Alumina)	
sealer	silicon rubber RTV	
lead wire	UL1430 (22AWG)	tin
joint cover	silicon rubber RTV	



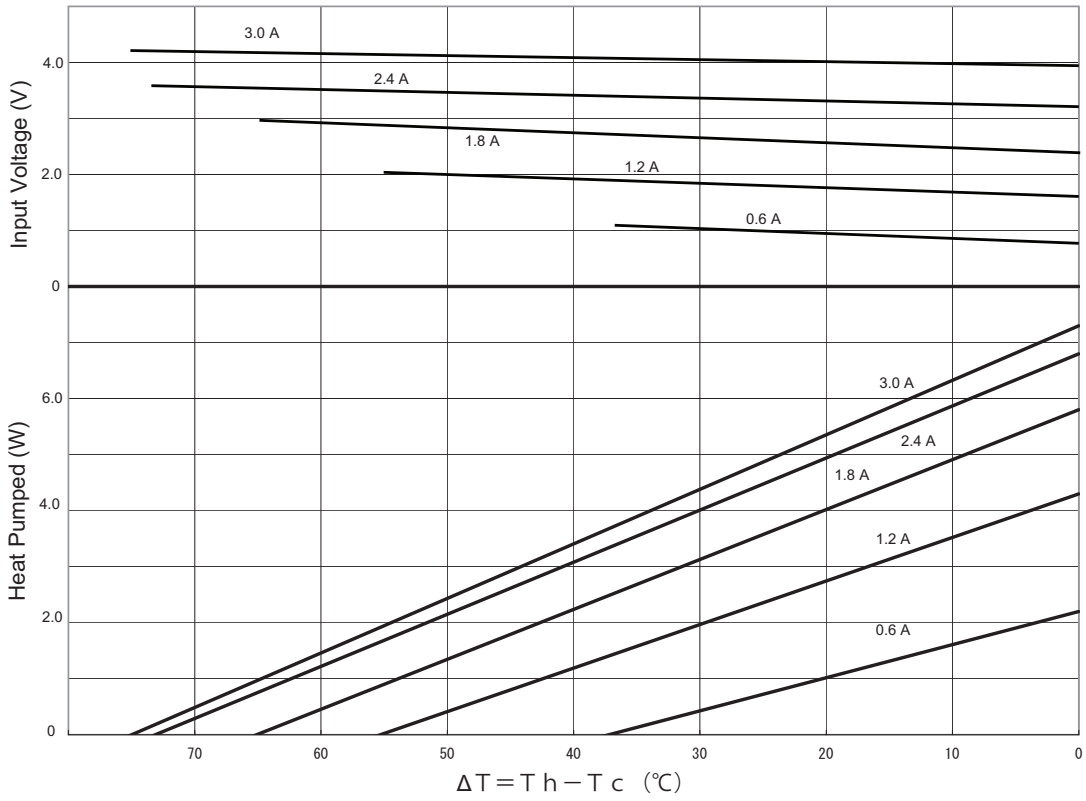


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP30138	15 ±0.3	15 ±0.3	3.8 ±0.1
CP30238	20 ±0.3	20 ±0.3	3.8 ±0.1
CP30338	30 ±0.3	30 ±0.3	3.8 ±0.1

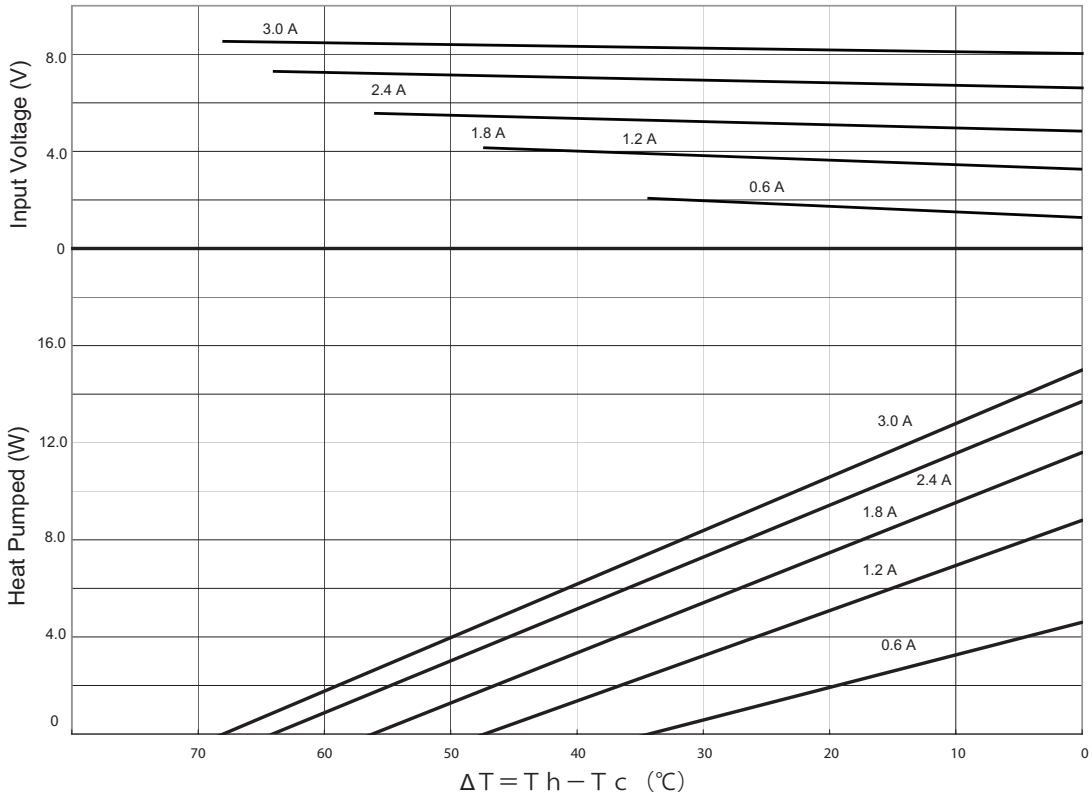
CP30138 PERFORMANCE (Th=27°C)



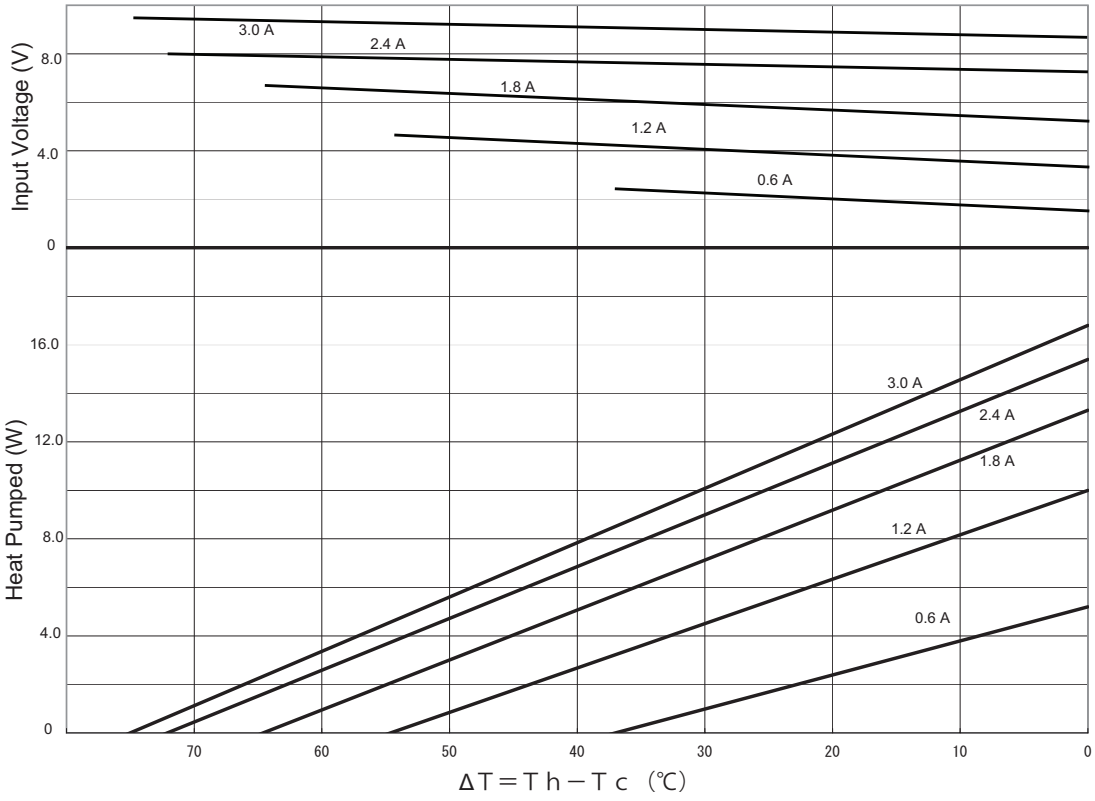
CP30138 PERFORMANCE (Th=50°C)



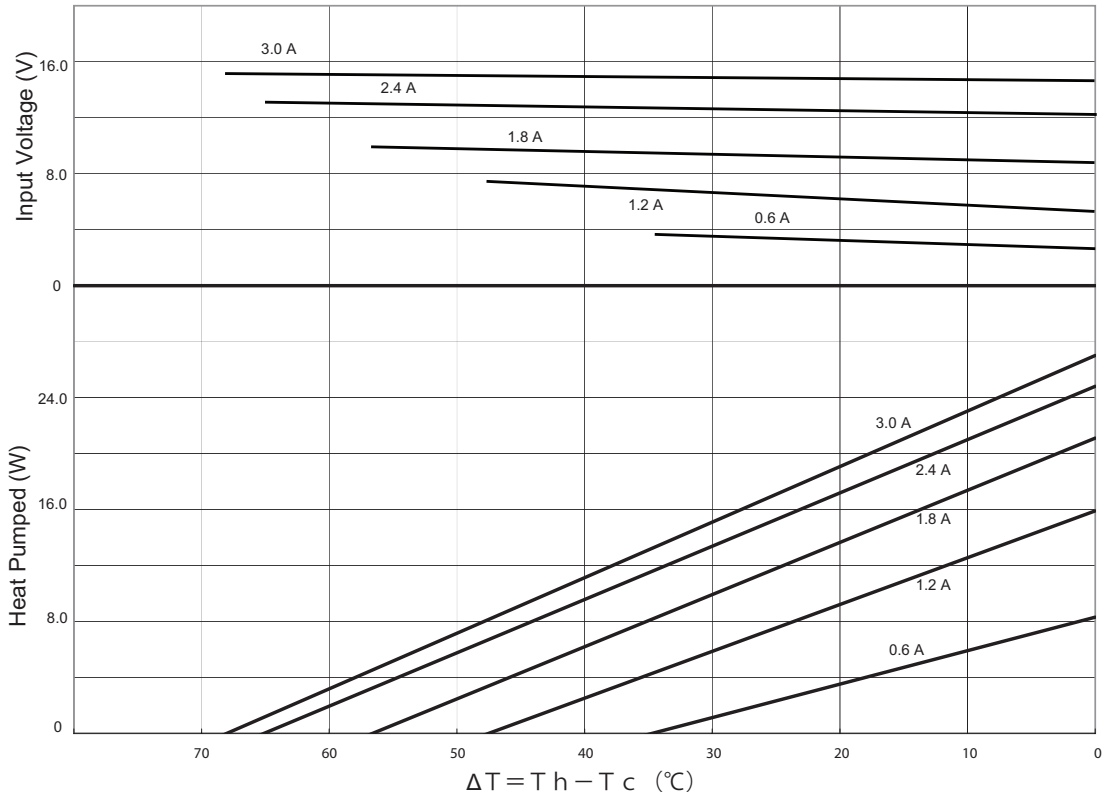
CP30238 PERFORMANCE (Th=27°C)



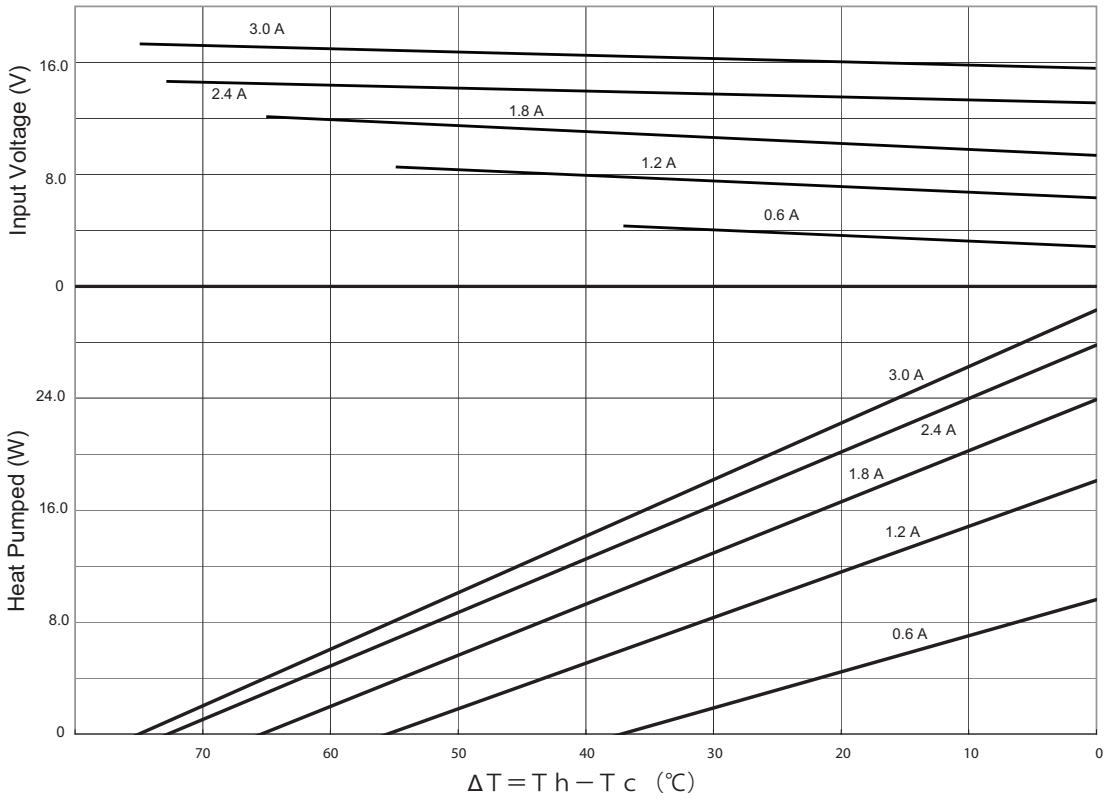
CP30238 PERFORMANCE (Th=50°C)



CP30338 PERFORMANCE (Th=27°C)



CP30338 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/03/2009
1.01	applied new template	05/07/2012
1.02	brand update	10/30/2019
1.03	logo, datasheet style update	08/05/2022
1.04	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.