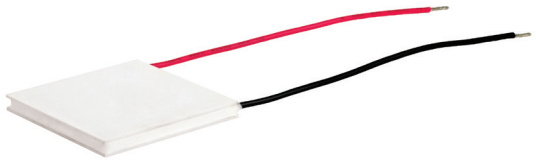
CUI DEVICES

SERIES: CP30 | DESCRIPTION: PELTIER MODULE

FEATURES

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

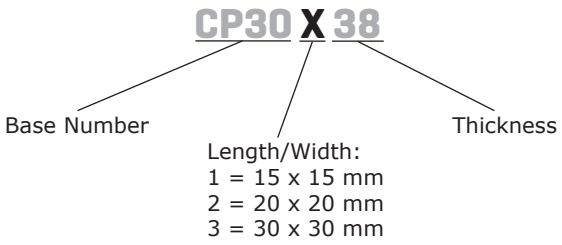


RoHS

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



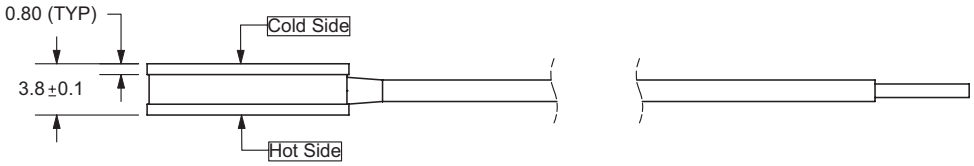
SPECIFICATIONS

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				

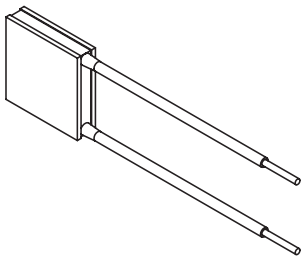
Notes: 3. measured by AC 4-terminal method at 25°C

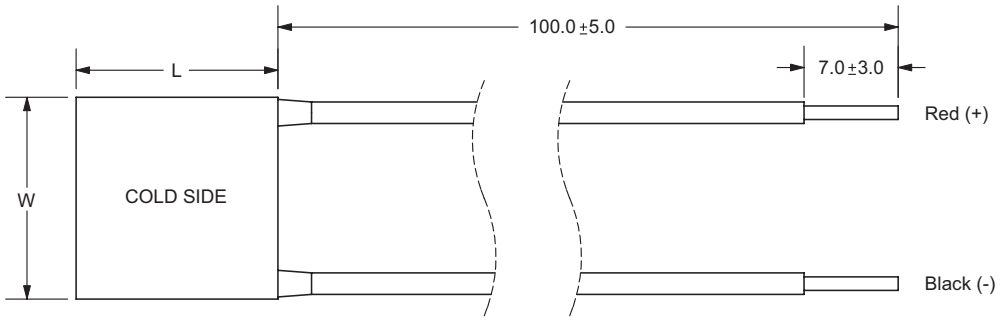
MECHANICAL DRAWING

units: mm



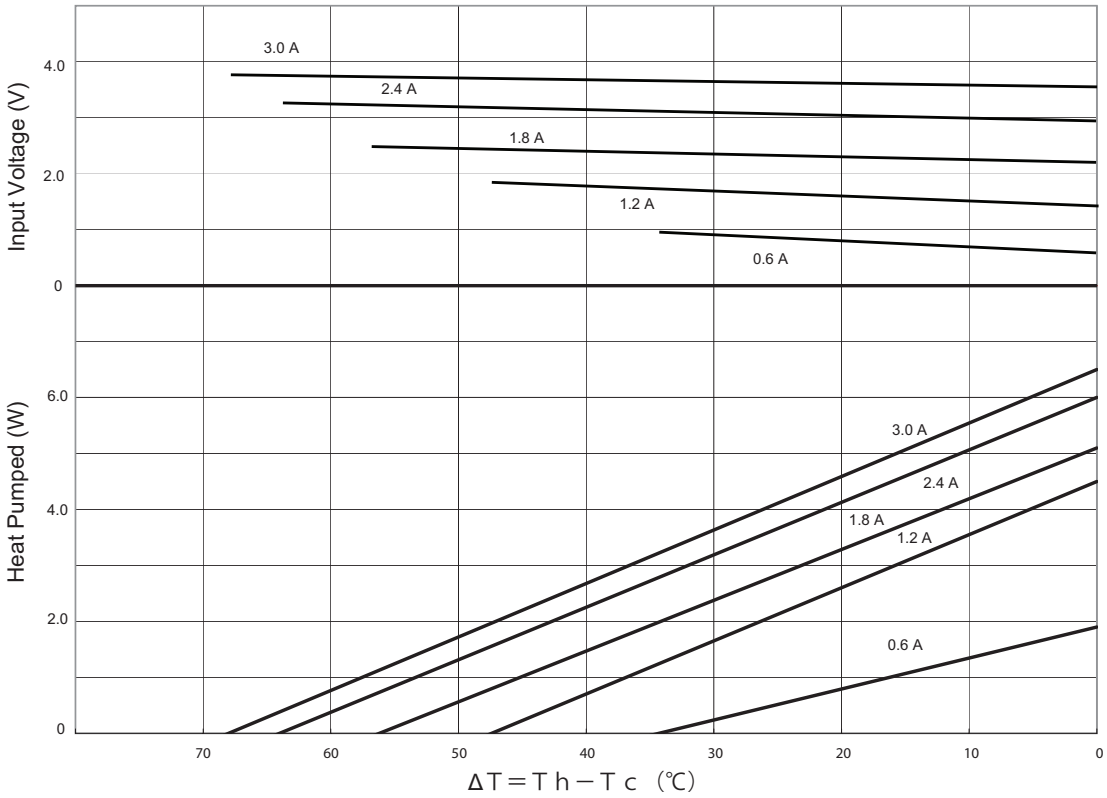
	MATERIAL	PLATING
ceramic plate	Al_2O_3 (Alumina)	
sealer	silicon rubber RTV	
lead wire	UL1430 (22AWG)	tin
joint cover	silicon rubber RTV	



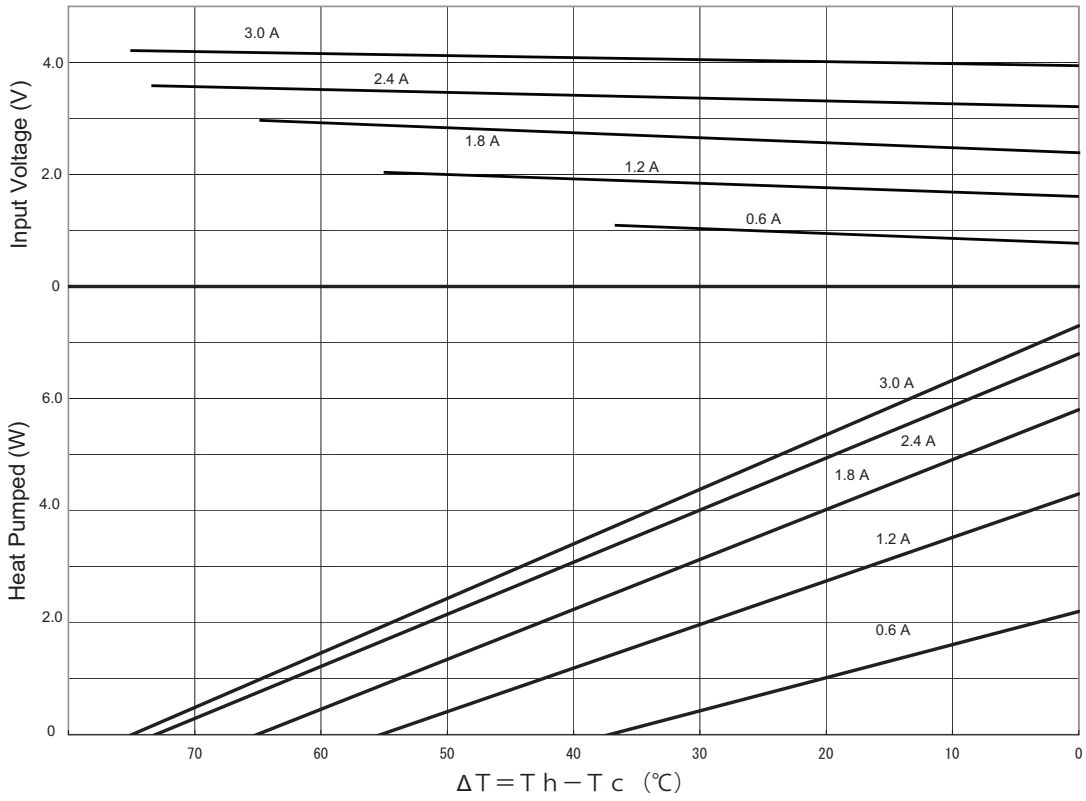


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP30138	15 ±0.3	15 ±0.3	3.8 ±0.1
CP30238	20 ±0.3	20 ±0.3	3.8 ±0.1
CP30338	30 ±0.3	30 ±0.3	3.8 ±0.1

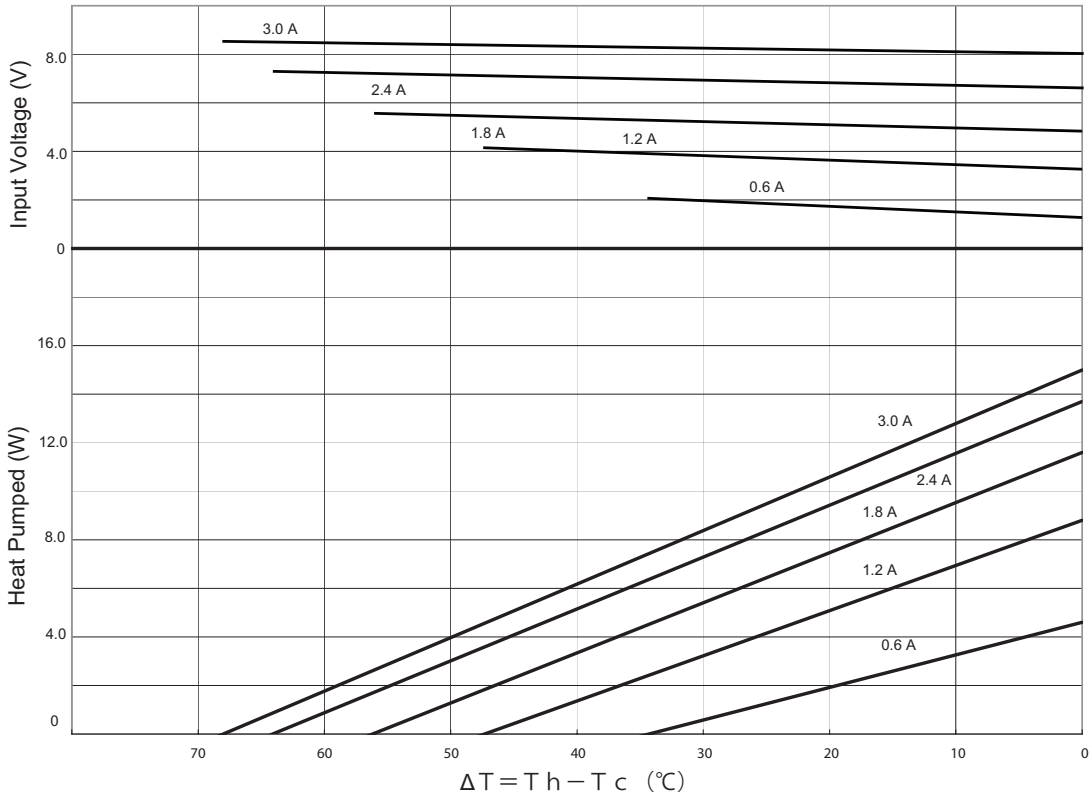
CP30138 PERFORMANCE (Th=27°C)



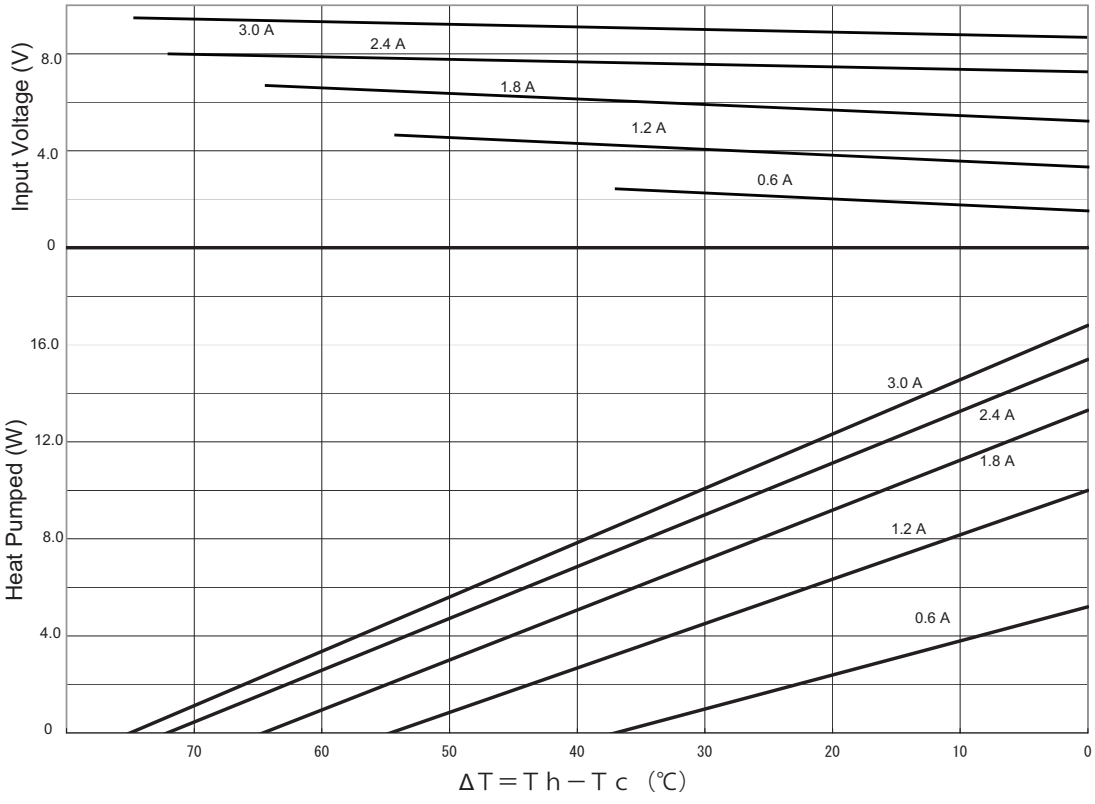
CP30138 PERFORMANCE (Th=50°C)



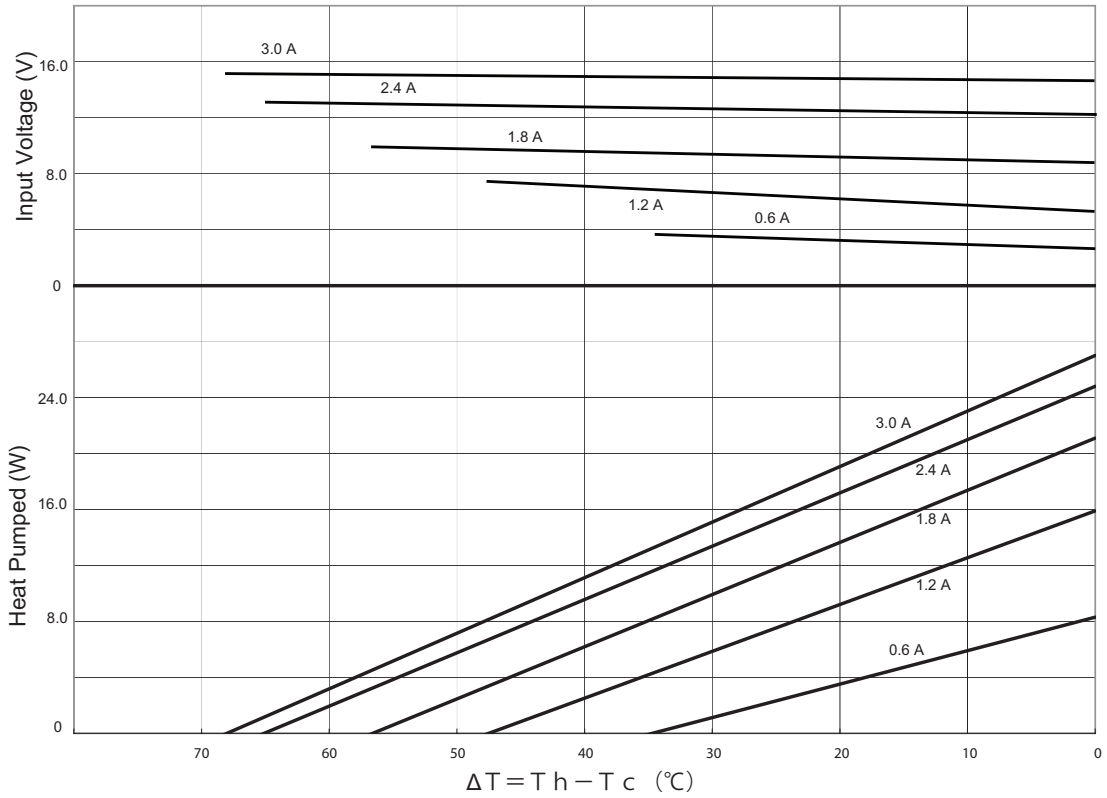
CP30238 PERFORMANCE (Th=27°C)



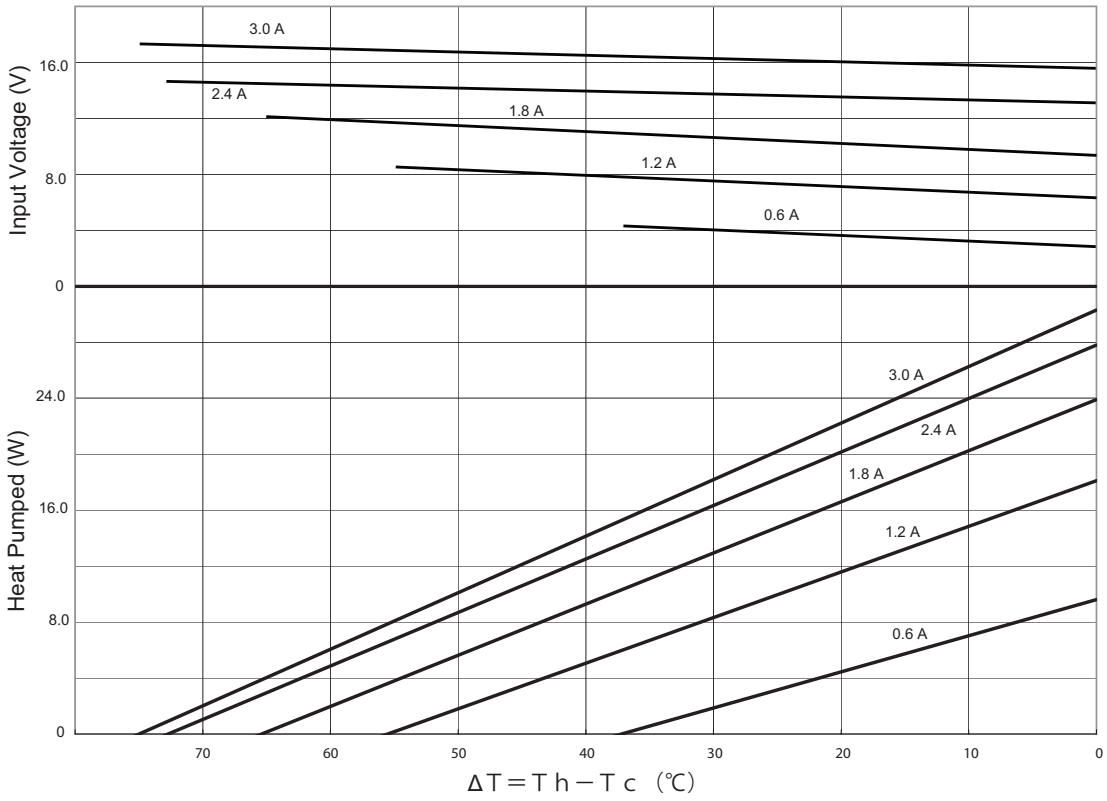
CP30238 PERFORMANCE (Th=50°C)



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

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.

cuidevices.com

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Same Sky:

CMC-5042PF-AC SJ1-3535N CDM1222-12A-FW-F16-050-67 CFM-A238BF-270-651 PJ-058AH
CFM-2510B-0130-275 CMP-5247TF-K CPI-1375IC-80T HSE-B20350-NP PR4-5V-450-1A
CFM-2507CF-0140-313 CMA-4544PF-W CPM-2H DS01C-254-S-03BE PJ-067B TB007-508-02BE
UJ32-C-H-G-L1-MSMT-TR CPT-1117-83-SMT-TR SJ-2523-SMT-TR TBL004V-508-02BE-2GY
TBP01R1-508-14BE CMM-2718AT-42316-TR DS04-254-2-02BK-SMT CFM-6015V-239-292-20
CMI-9653S-SMT-TR CBT-09427-SMT-TR PJ-047BH PJ-202AH SJ-43516-SMT-TR-PI TBP02P1-381-10BE