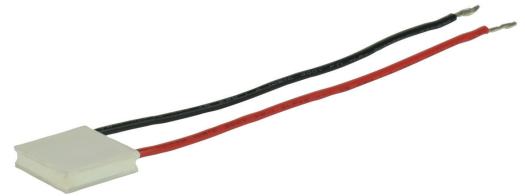


SERIES: CP30H | **DESCRIPTION:** PELTIER MODULE

FEATURES

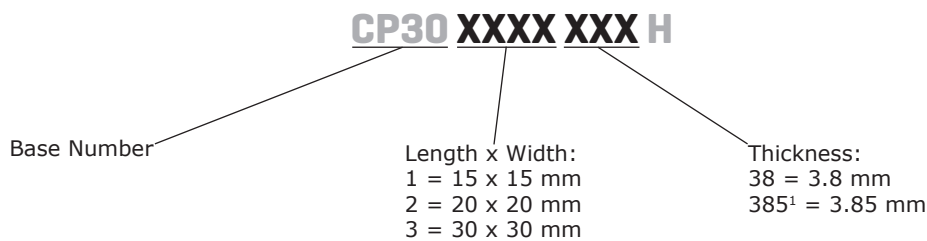
- arcTEC™ structure on select models
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction



MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	output Qmax ³		output ΔT max ⁴	
			T _h =27°C (W)	T _h =50°C (W)	T _h =27°C (°C)	T _h =50°C (°C)
CP30138H	3.8	3.0	7.3	8.0	70	77
CP30238H	8.8	3.0	16.6	18.0	70	77
CP303385H ⁵	15.7	3.0	29.8	32.5	70	77

- Notes:
1. Maximum voltage at ΔT max and T_h=27°C
 2. Maximum current to achieve ΔT max
 3. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and $\Delta T=0^\circ\text{C}$
 4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)
 5. Designed with arcTEC™ structure.

PART NUMBER KEY



- Notes: 1. Only available in 30 x 30 mm size

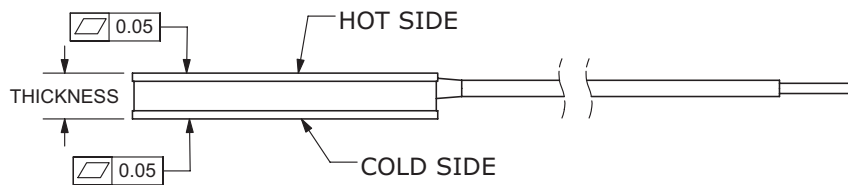
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	CP30138H	0.9	1.0	1.1	Ω
	CP30238H	1.98	2.20	2.42	Ω
	CP303385H	3.6	4.0	4.4	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

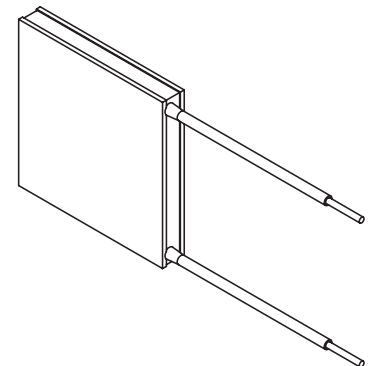
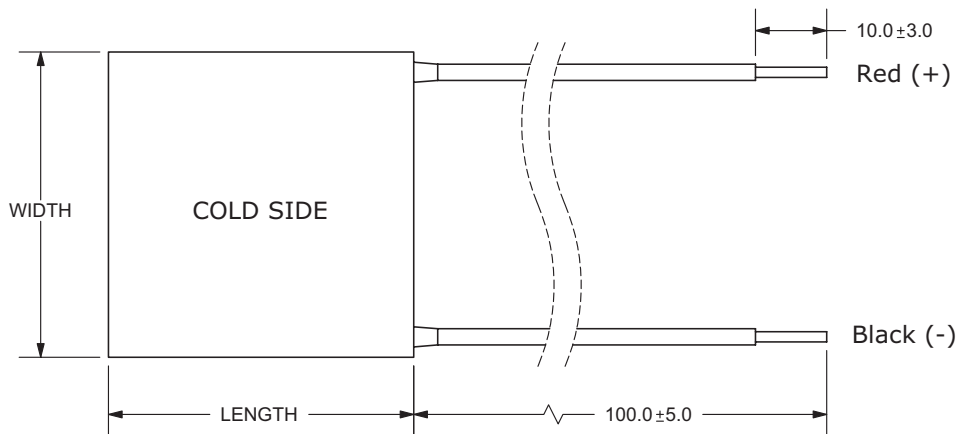
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

units: mm

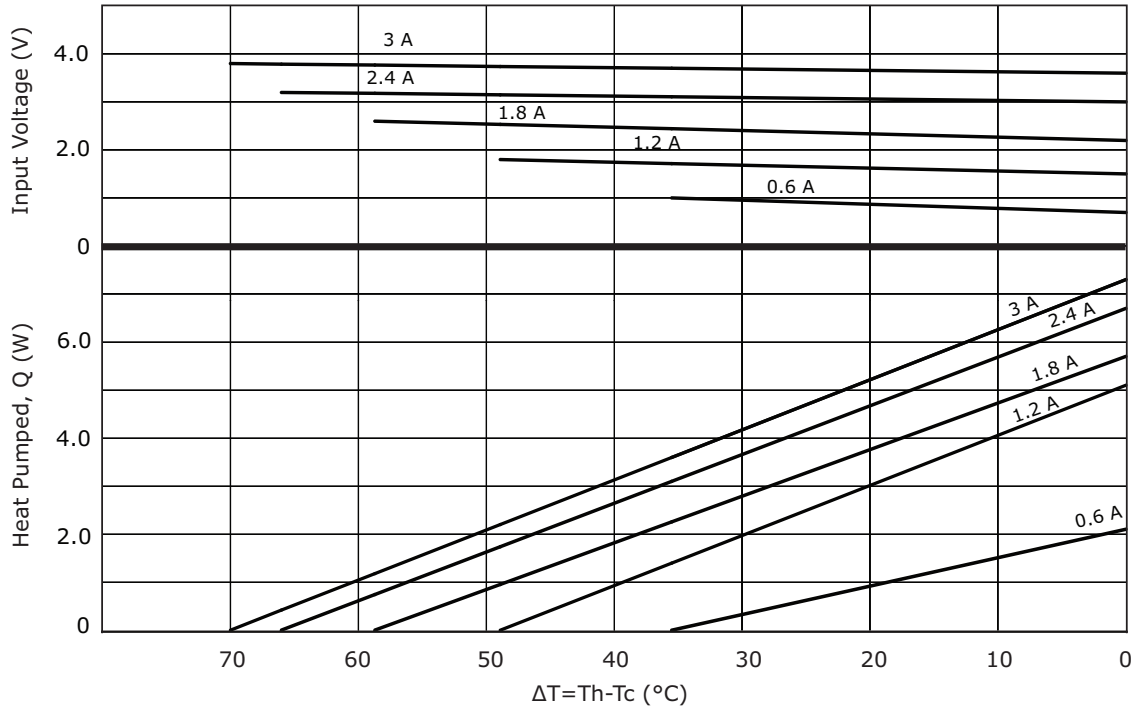


	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

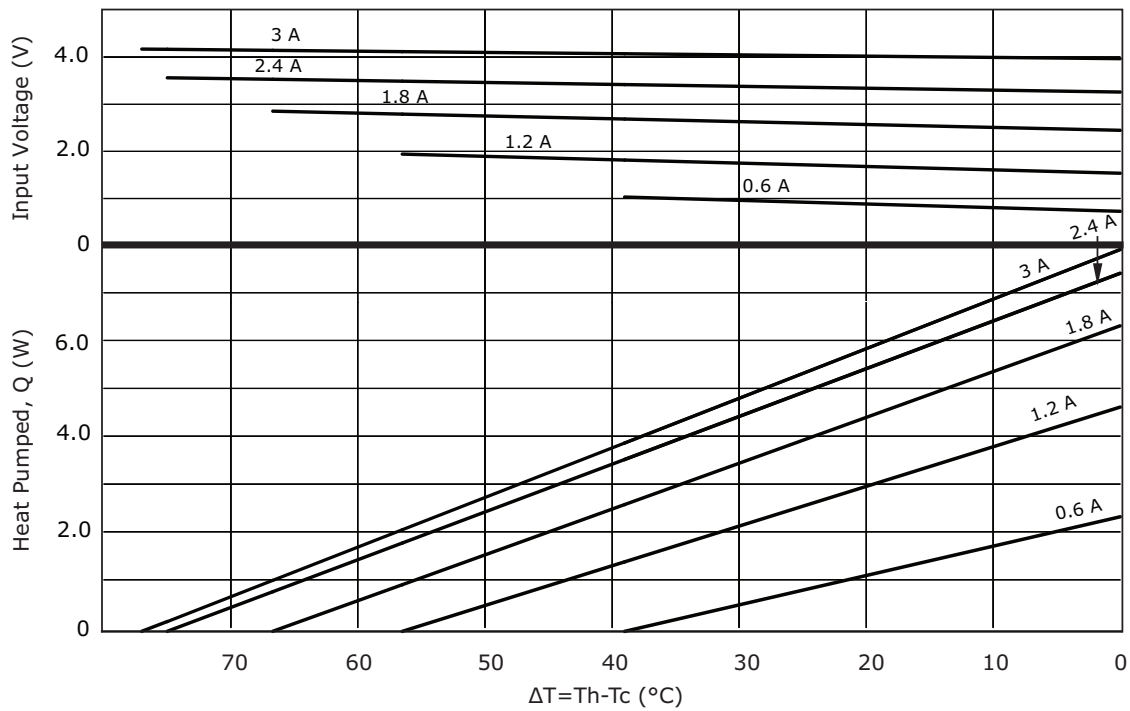


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP30138H	15 ±0.3	15 ±0.3	3.8 ±0.025
CP30238H	20 ±0.3	20 ±0.3	3.8 ±0.025
CP303385H	30 ±0.3	30 ±0.3	3.85 ±0.02

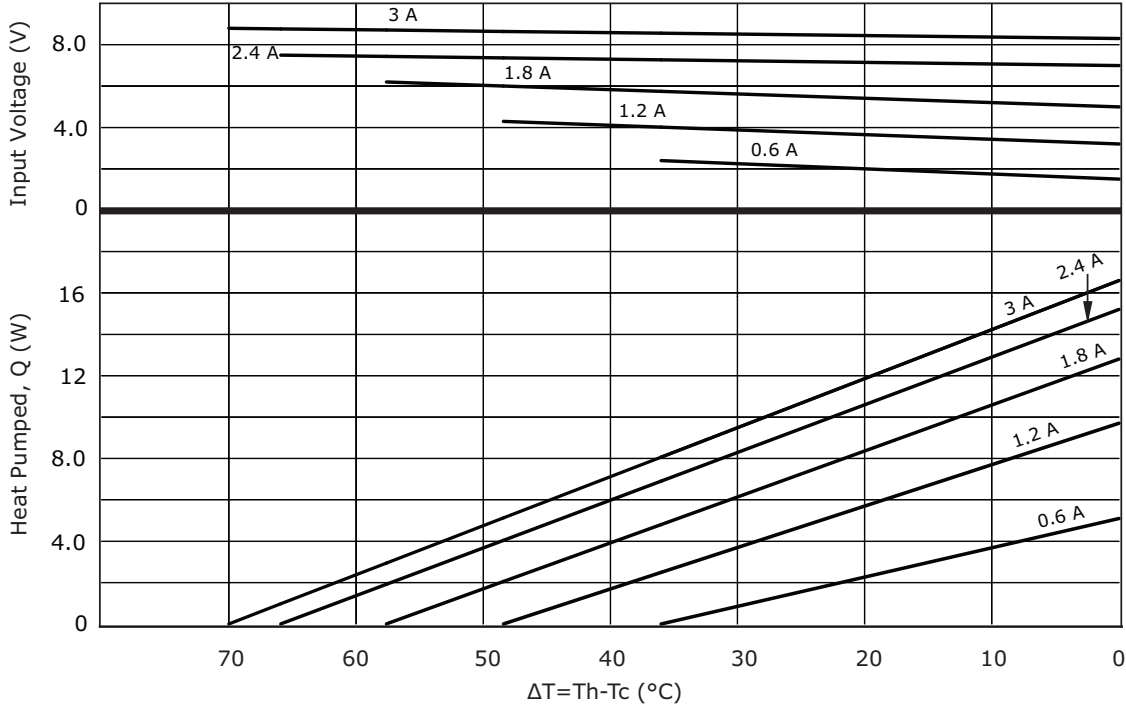
CP30138H PERFORMANCE (Th=27°C)



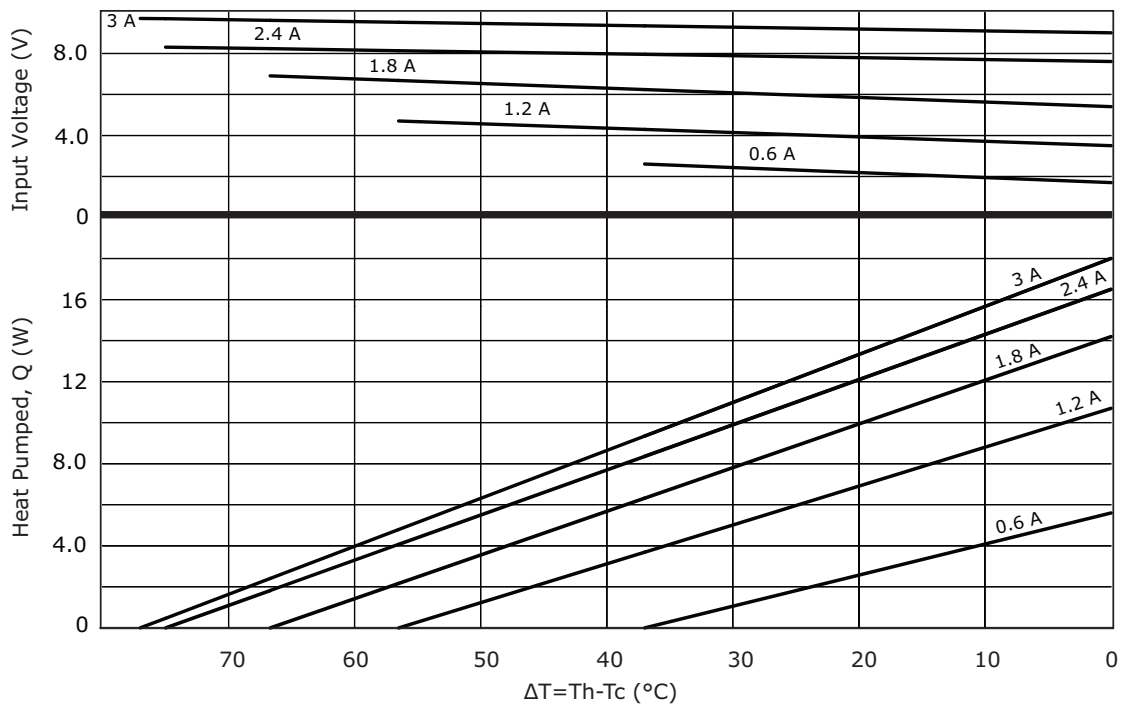
CP30138H PERFORMANCE (Th=50°C)



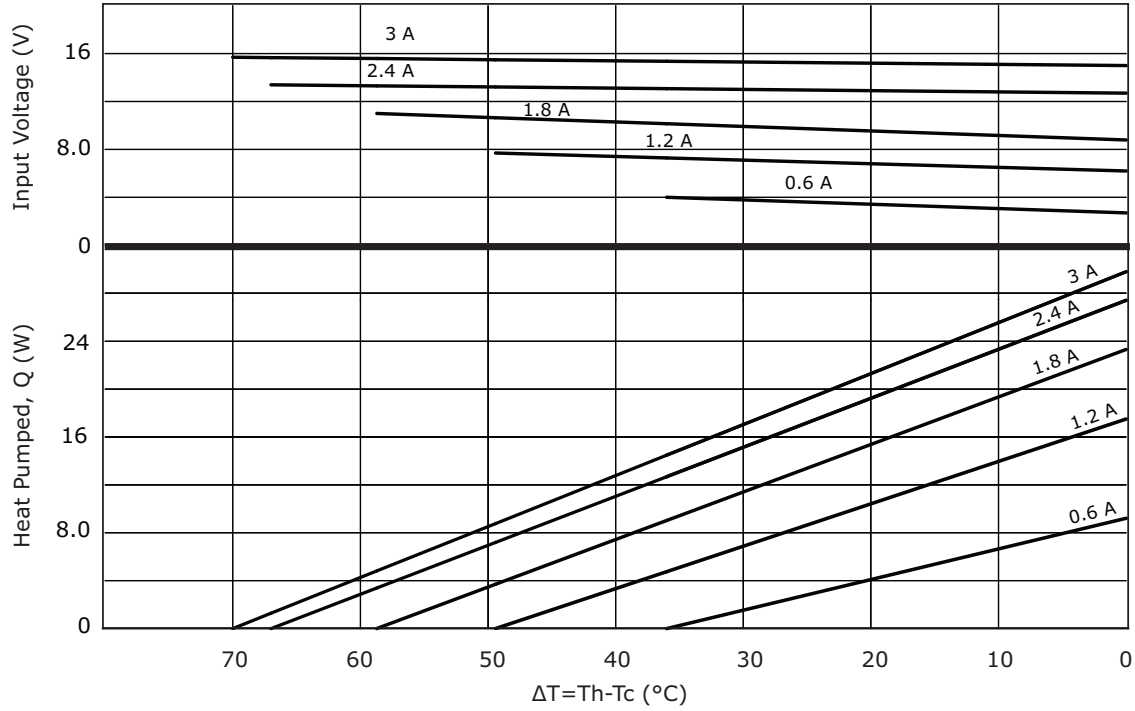
CP30238H PERFORMANCE (Th=27°C)



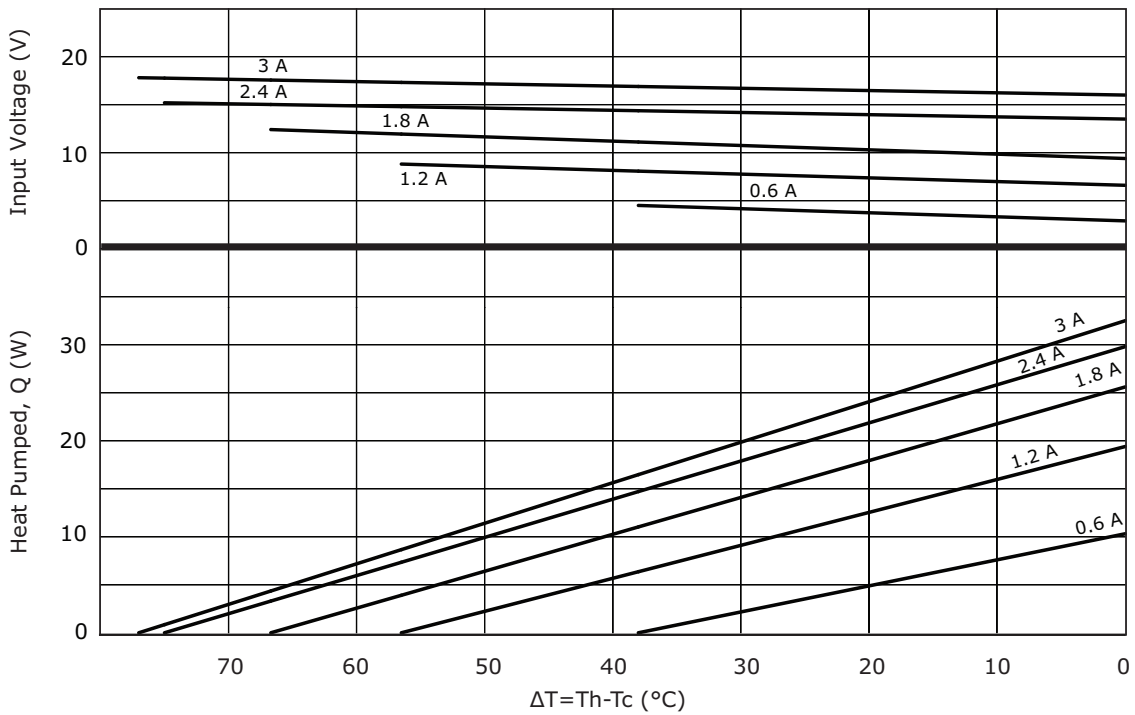
CP30238H PERFORMANCE (Th=50°C)



CP303385H PERFORMANCE (Th=27°C)



CP303385H PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	updated datasheet	09/25/2017

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



CUI INC[®]

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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