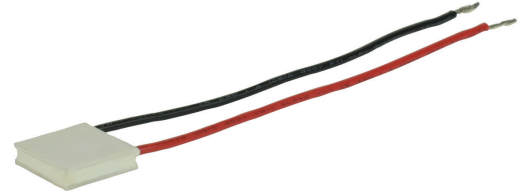




SERIES: CP30H | DESCRIPTION: PELTIER MODULE

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



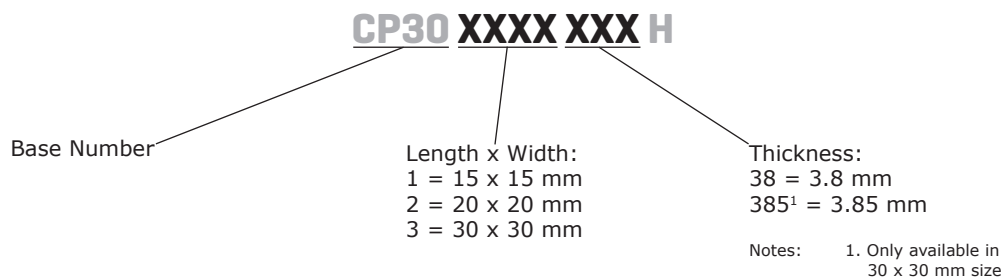
MODEL

MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	output Qmax ³		output ΔT_{max} ⁴	
			$T_h = 27^\circ\text{C}$ (W)	$T_h = 50^\circ\text{C}$ (W)	$T_h = 27^\circ\text{C}$ (°C)	$T_h = 50^\circ\text{C}$ (°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 $T_h = 27^\circ\text{C}$
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 $Q = 0\text{W}$ (ΔT_{max} measured in a vacuum at 1.3 Pa)
5. Designed with arcTEC™ structure.

PART NUMBER KEY



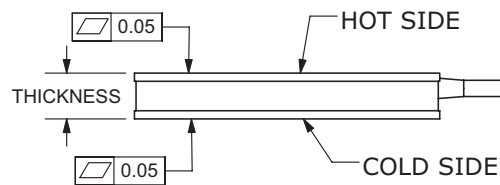
SPECIFICATIONS

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			$^{\circ}\text{C}$
assembly compression				1	MPa
hot side plate				80	$^{\circ}\text{C}$
RoHS	2011/65/EU				

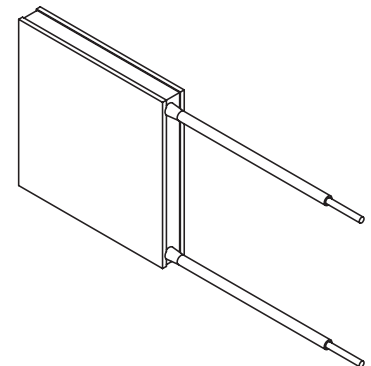
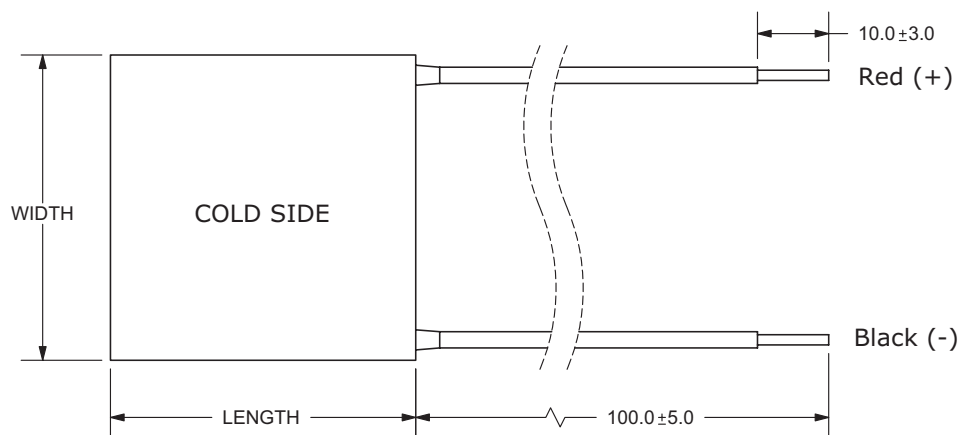
Note: 1. Measured by AC 4-terminal method at 25 $^{\circ}\text{C}$

MECHANICAL DRAWING

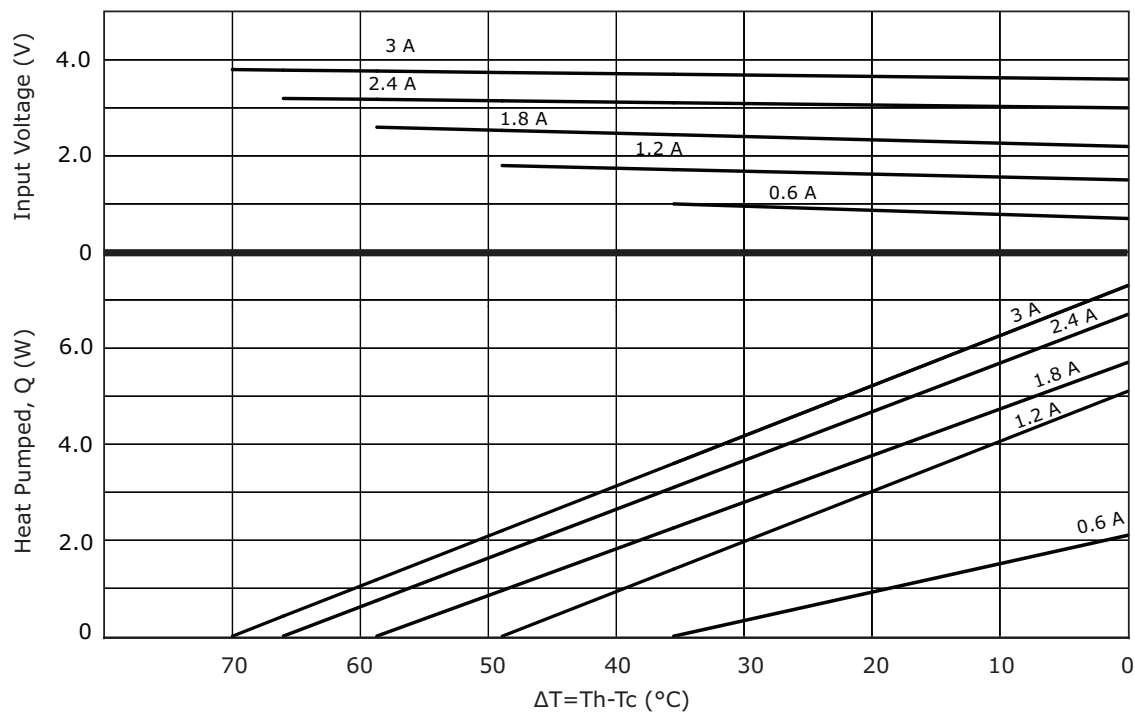
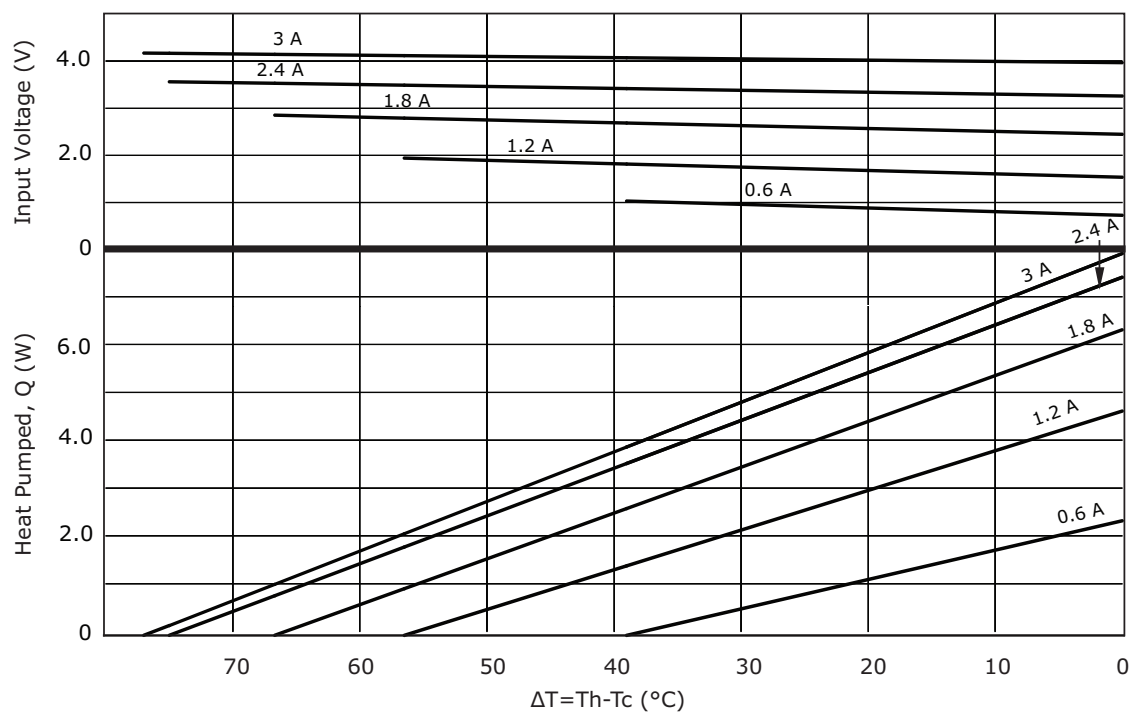
units: mm

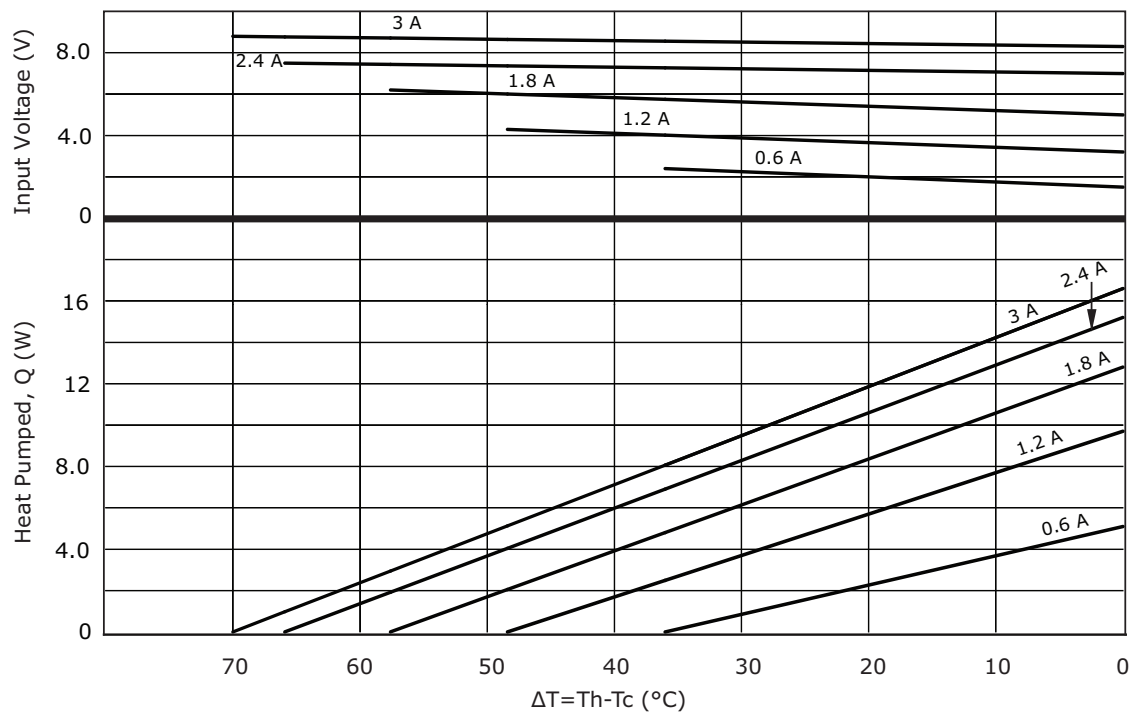
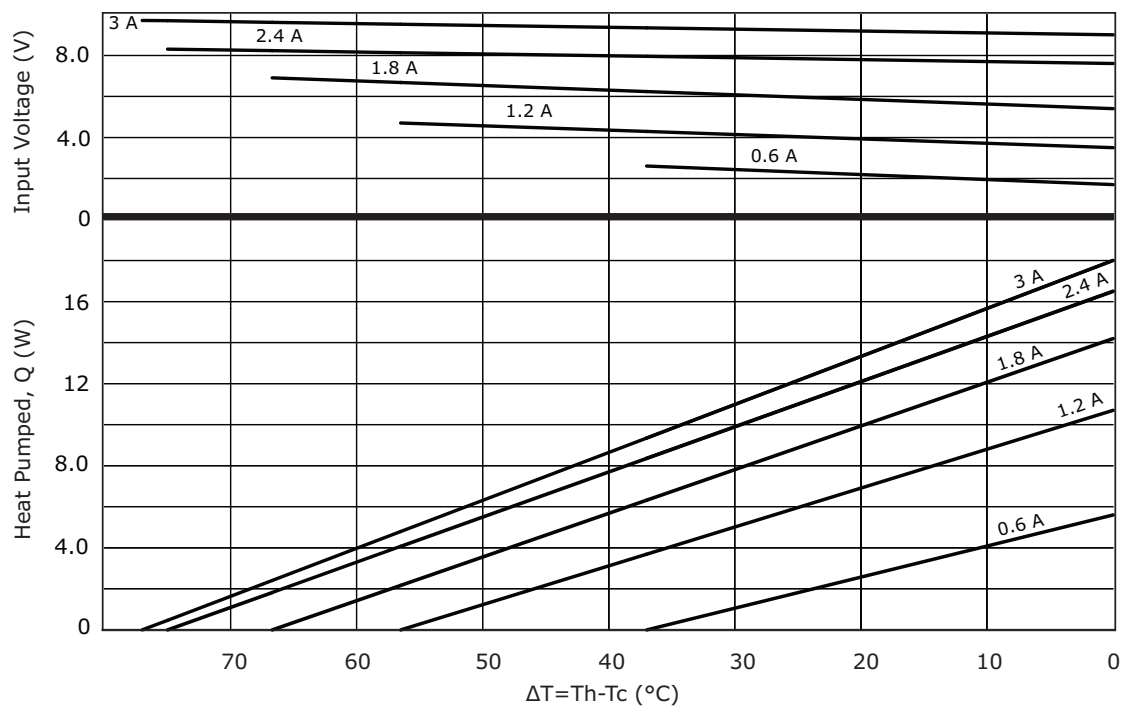


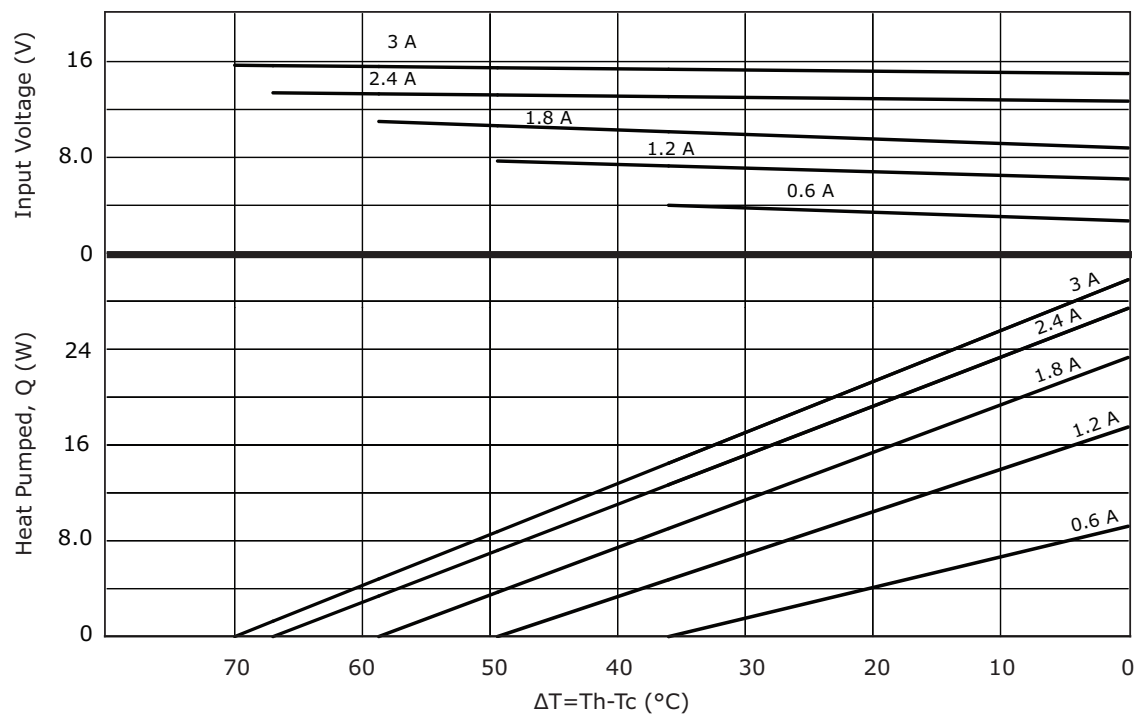
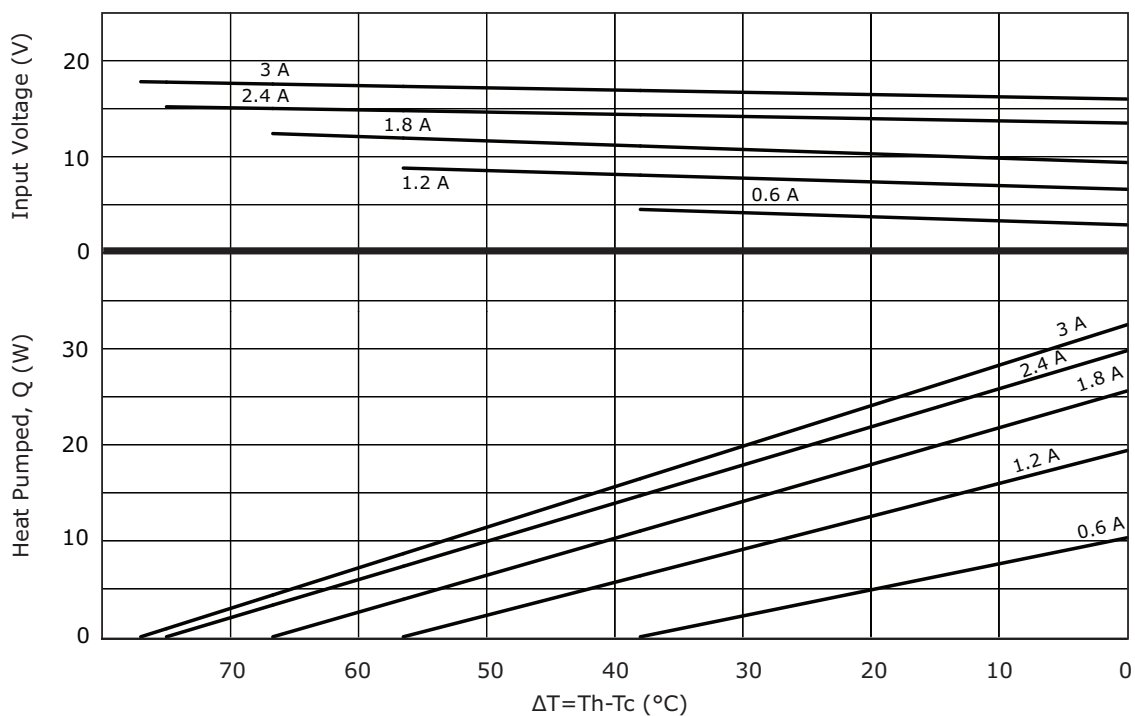
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



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.



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

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