

## SERIES: CP105H | DESCRIPTION: PELTIER MODULE

### FEATURES

- arcTEC™ structure
- solid state device
- precise temperature control
- silent operation



### MODEL

MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	internal resistance <sup>3</sup> typ ( $\Omega \pm 10\%$ )	output Qmax <sup>4</sup>		output $\Delta T_{max}$ <sup>5</sup>	
				T <sub>h</sub> =27°C (W)	T <sub>h</sub> =50°C (W)	T <sub>h</sub> =27°C (°C)	T <sub>h</sub> =50°C (°C)
CP105433H	15.4	10.5	1.15	93	102	68	75
CP1054033H	24.1	10.5	1.83	148	163	68	75

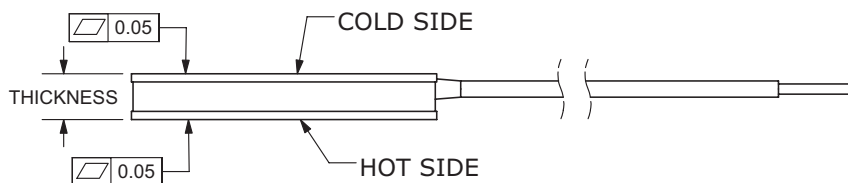
- Notes:
1. Maximum voltage at  $\Delta T_{max}$  and T<sub>h</sub>=27°C
  2. Maximum current to achieve  $\Delta T_{max}$
  3. Measured by AC 4-terminal method at 25°C
  4. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and  $\Delta T=0^\circ\text{C}$
  5. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W ( $\Delta T_{max}$  measured in a vacuum at 1.3 Pa)

## SPECIFICATIONS

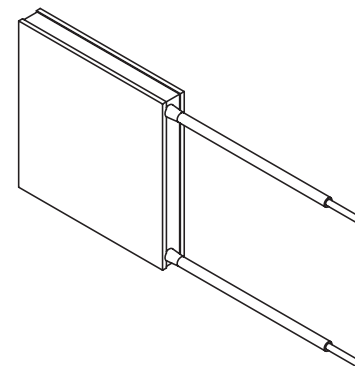
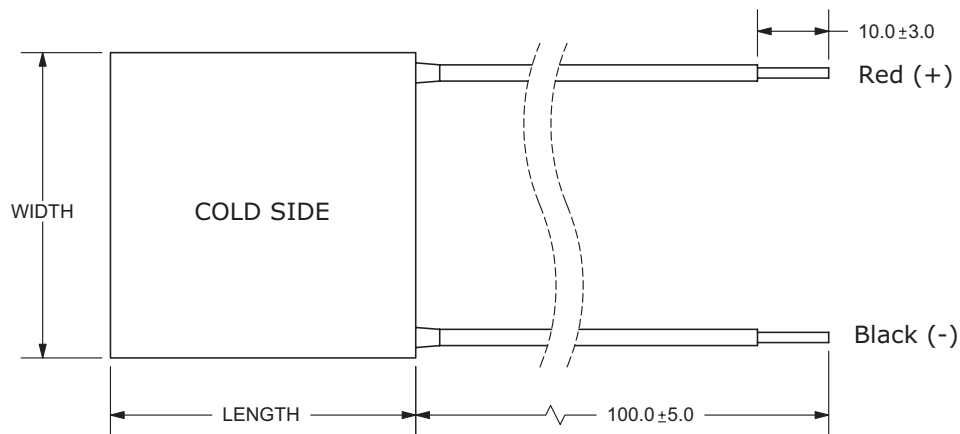
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	yes				

## MECHANICAL DRAWING

units: mm

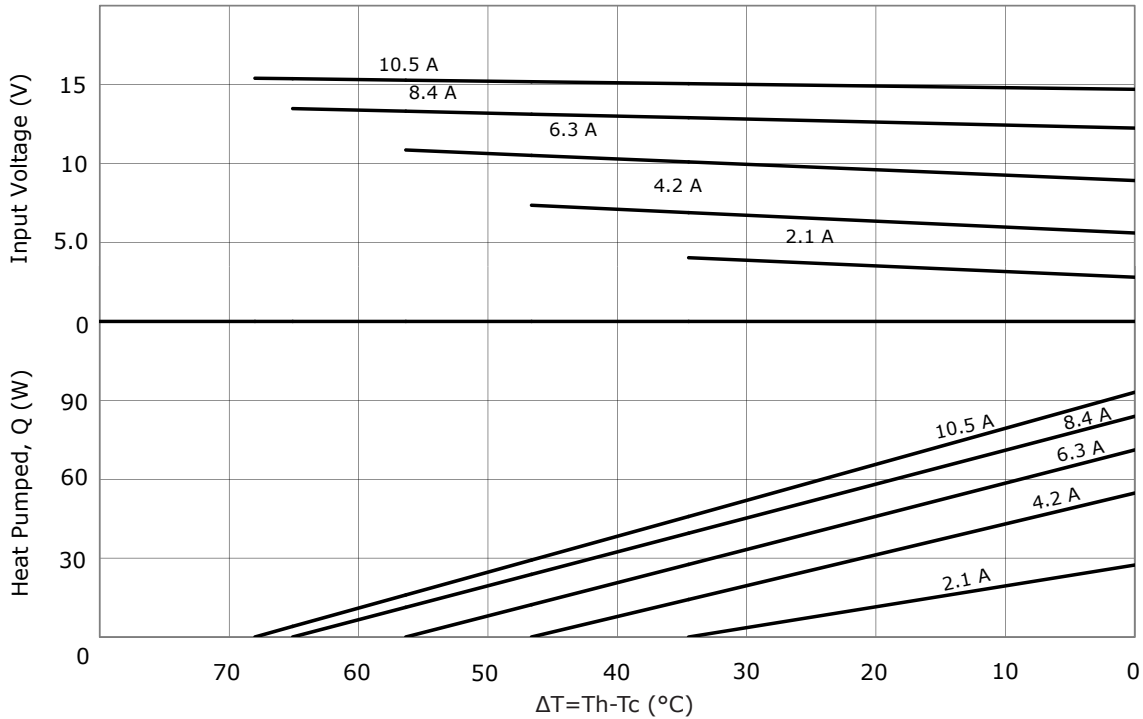


	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

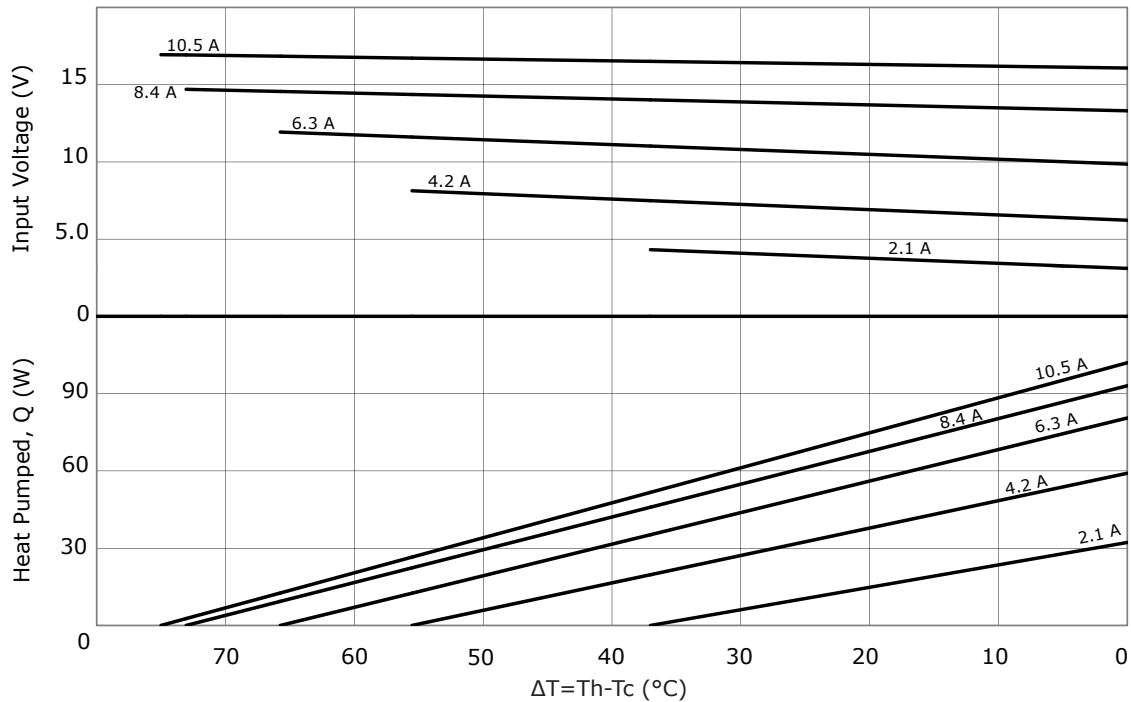


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP105433H	40 ±0.3	40 ±0.3	3.3 ±0.1
CP1054033H	40 ±0.3	40 ±0.3	3.3 ±0.1

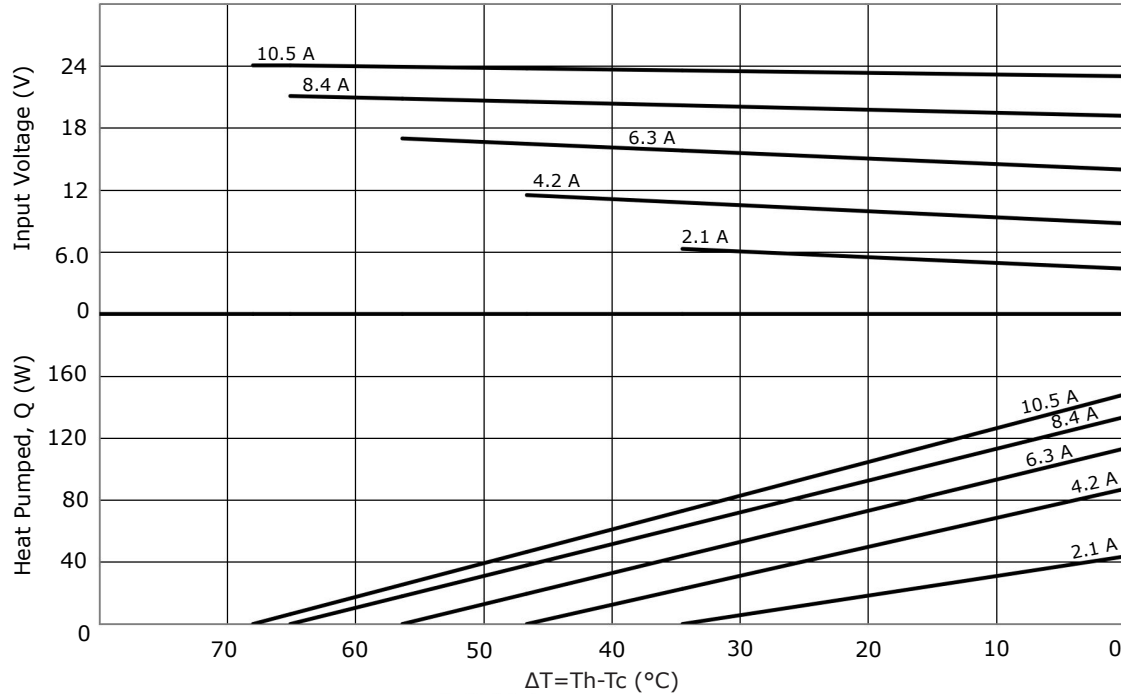
### CP105433H PERFORMANCE (Th=27°C)



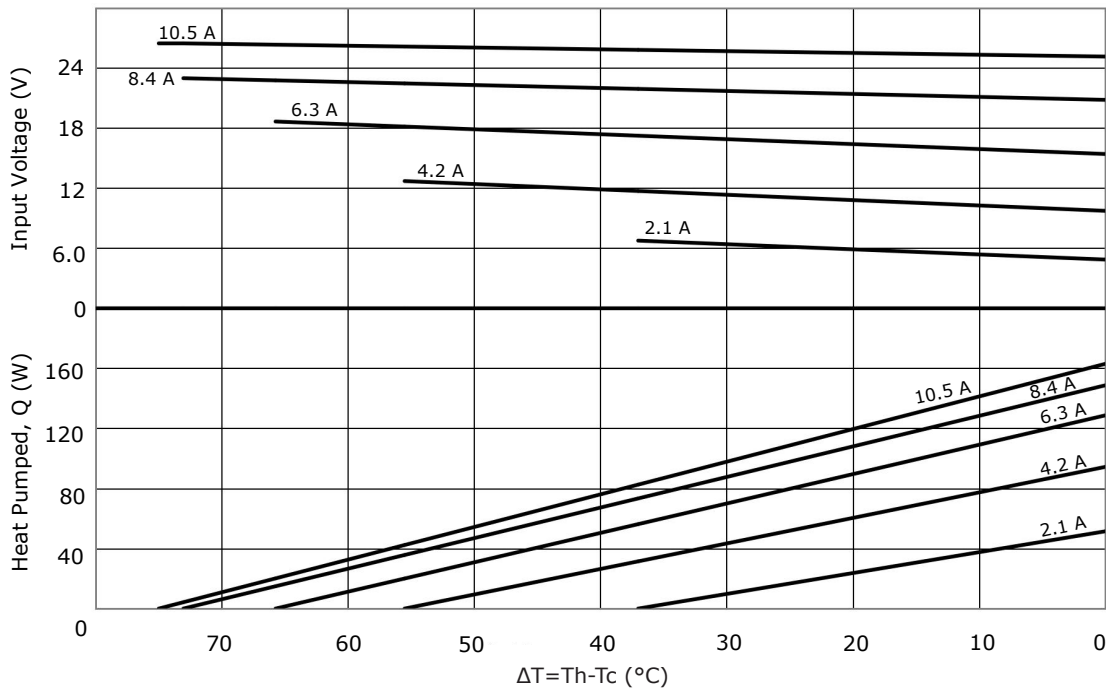
### CP105433H PERFORMANCE (Th=50°C)



### CP1054033H PERFORMANCE (Th=27°C)



### CP1054033H PERFORMANCE (Th=50°C)



## REVISION HISTORY

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rev.	description	date
1.0	initial release	05/21/2018
1.01	brand update	10/28/2019
1.02	added model CP1054033H	11/09/2020

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

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