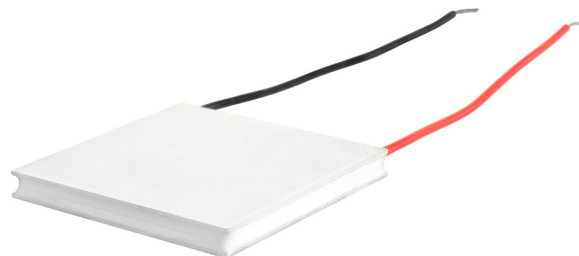


**SERIES:** CP45H | **DESCRIPTION:** PELTIER MODULE

**FEATURES**

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


**MODEL**

	input voltage <sup>1</sup>	input current <sup>2</sup>	internal resistance <sup>3</sup>	output Qmax <sup>4</sup>		output ΔTmax <sup>5</sup>	
	max [Vdc]	max [A]	typ [Ω±10%]	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]
CP454375	19.5	4.5	3.54	50.7	55.7	70	77
CP455535H	15.7	4.5	2.5	41	45	70	77

- Notes:
1. Maximum voltage at ΔT max and T<sub>h</sub>=27°C
  2. Maximum current to achieve ΔT 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 ΔT=0°C
  5. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

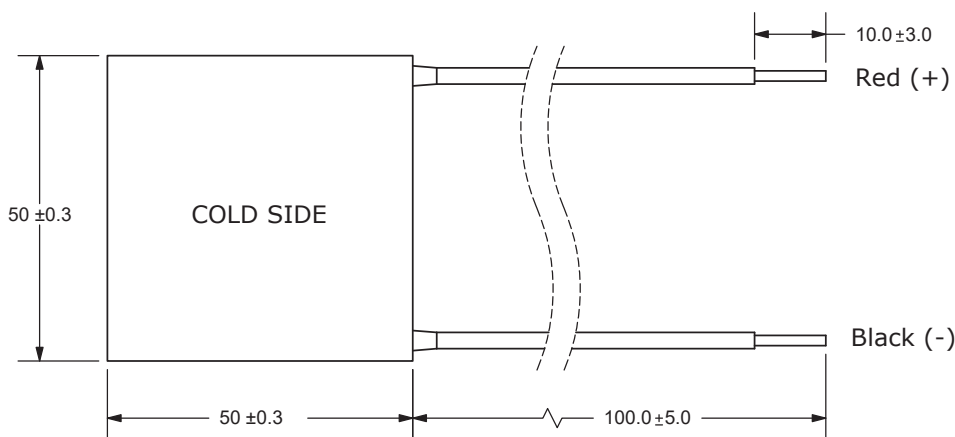
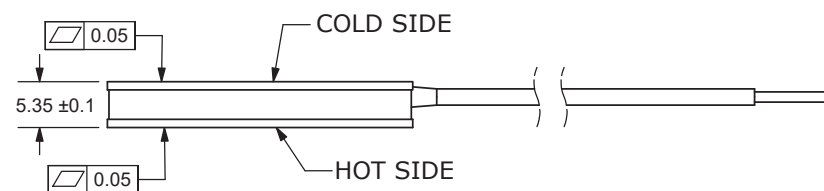
## SPECIFICATIONS

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

## MECHANICAL DRAWING

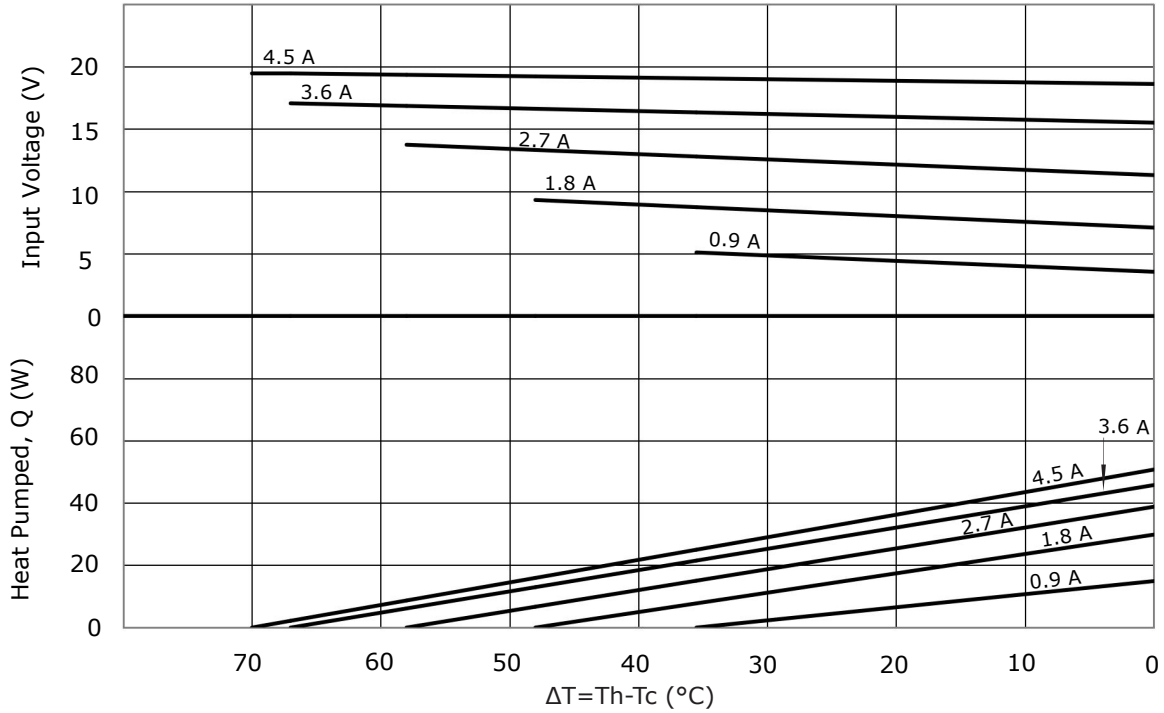
units: mm

	MATERIAL	PLATING
ceramic plate	96% $Al_2O_3$	
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	

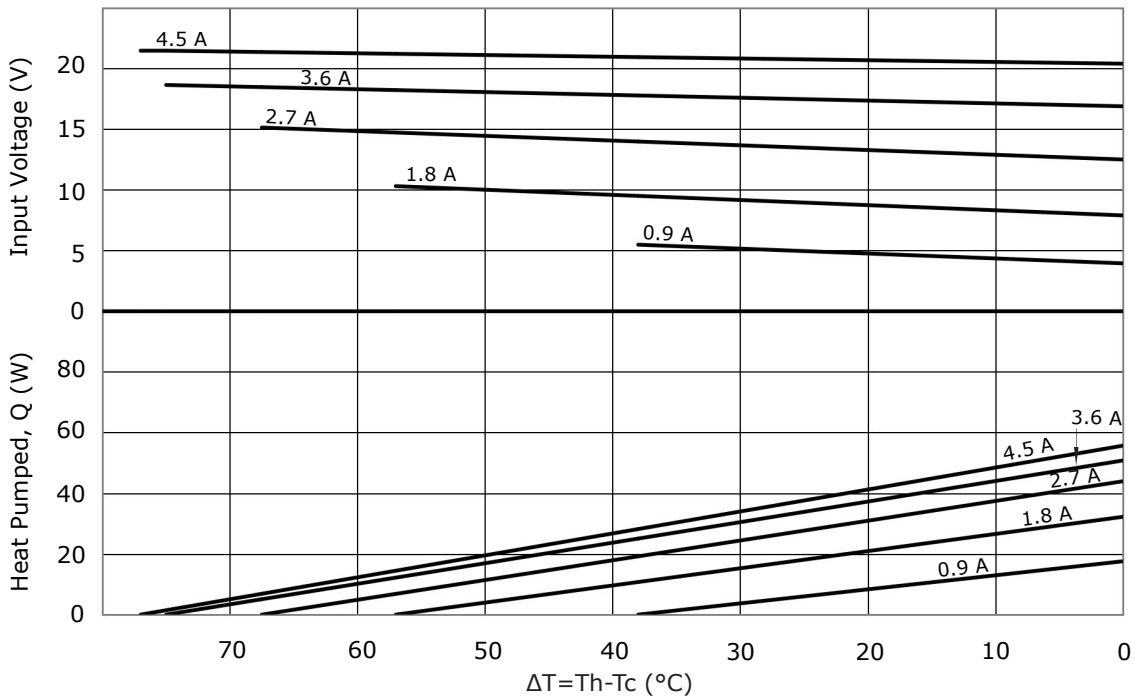


MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP454375	40 ± 0.3	40 ± 0.3	3.75 ± 0.1
CP455535H	50 ± 0.3	50 ± 0.3	5.35 ± 0.1

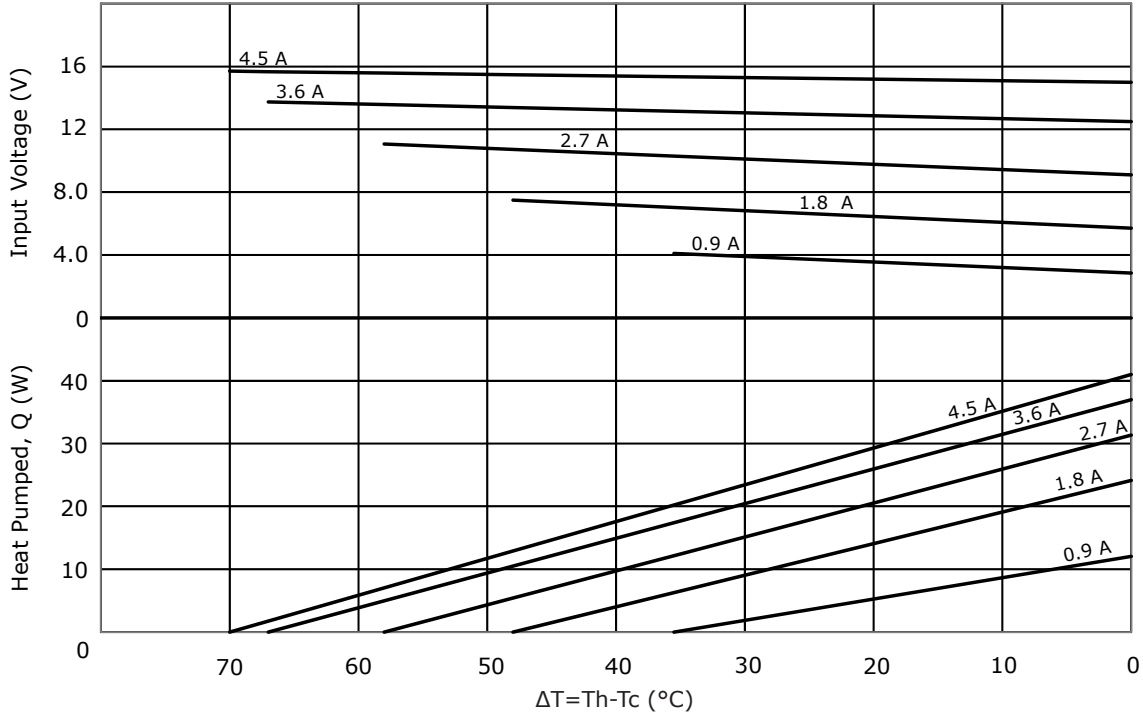
## CP454375 PERFORMANCE (Th=27°C)



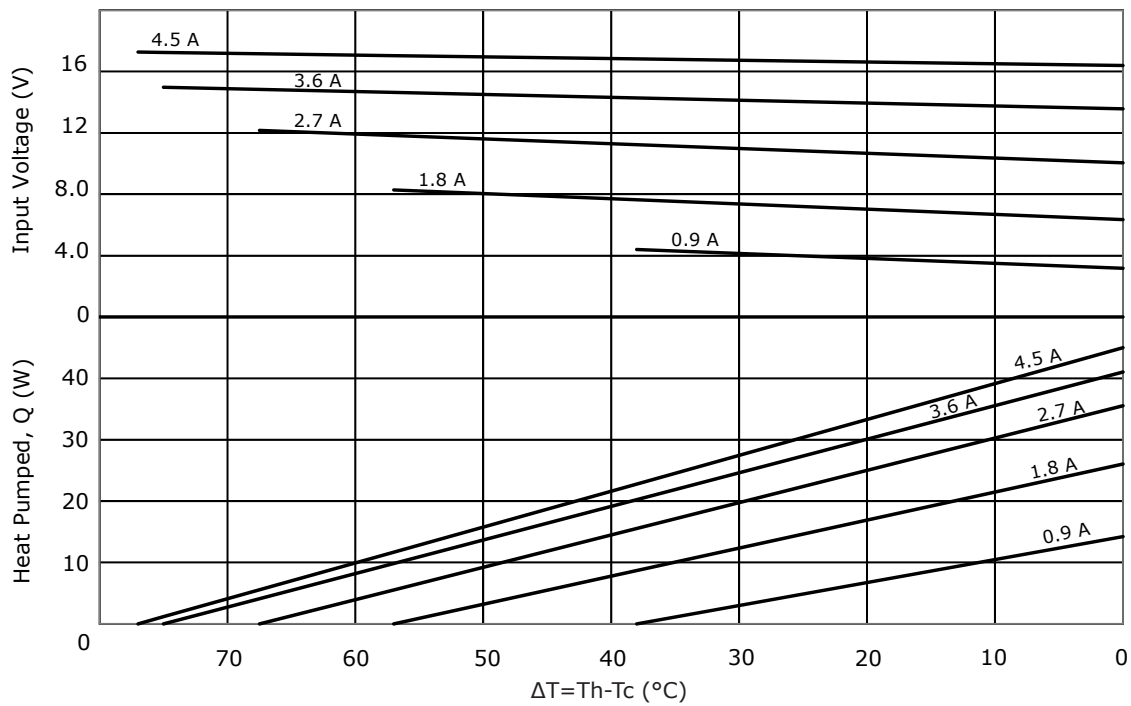
## CP454375 PERFORMANCE (Th=50°C)



## CP45535H PERFORMANCE (Th=27°C)



## CP45535H PERFORMANCE (Th=50°C)



## REVISION HISTORY

rev.	description	date
1.0	initial release	05/21/2018
1.01	added model CP454375, brand update	10/16/2019
1.02	logo, datasheet style update	08/05/2022

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



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

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