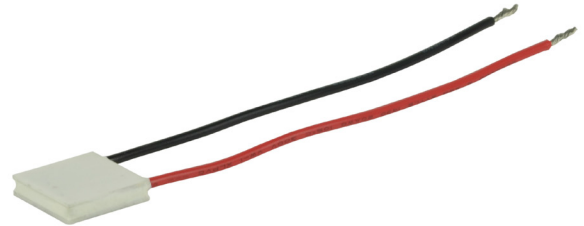


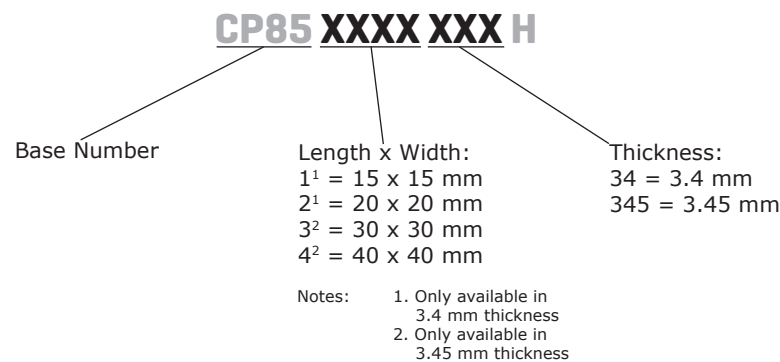
SERIES: CP85H | DESCRIPTION: PELTIER MODULE
FEATURES

- 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)	$T_h=27^\circ\text{C}$ ($^\circ\text{C}$)	$T_h=50^\circ\text{C}$ ($^\circ\text{C}$)
CP85134H	2.1	8.5	10.3	11.3	70	77
CP85234H	3.8	8.5	18.8	20.8	70	77
CP853345H ⁵	8.8	8.5	43.1	48	70	77
CP854345H ⁵	15.7	8.5	77.1	85	70	77

Notes:

1. Maximum voltage at ΔT max and $T_h=27^\circ\text{C}$ 2. Maximum current to achieve ΔT max3. 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


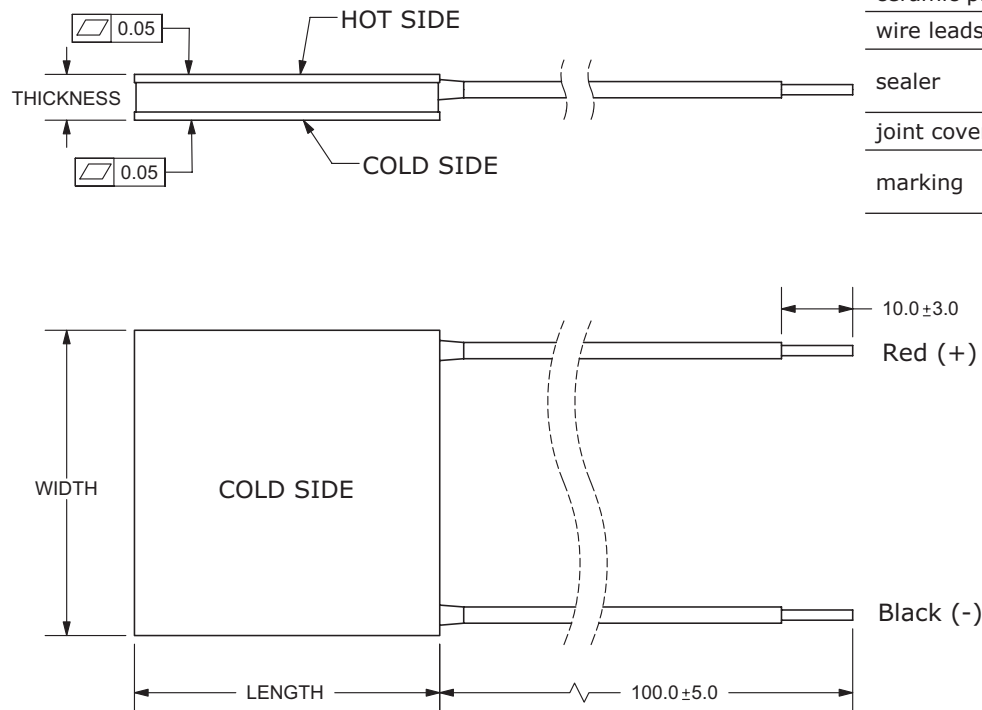
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	CP85134H	0.18	0.2	0.22	Ω
	CP85234H	0.315	0.35	0.385	Ω
	CP853345H	0.765	0.85	0.935	Ω
	CP854345H	1.35	1.5	1.65	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

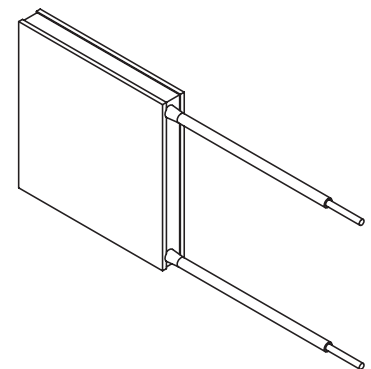
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

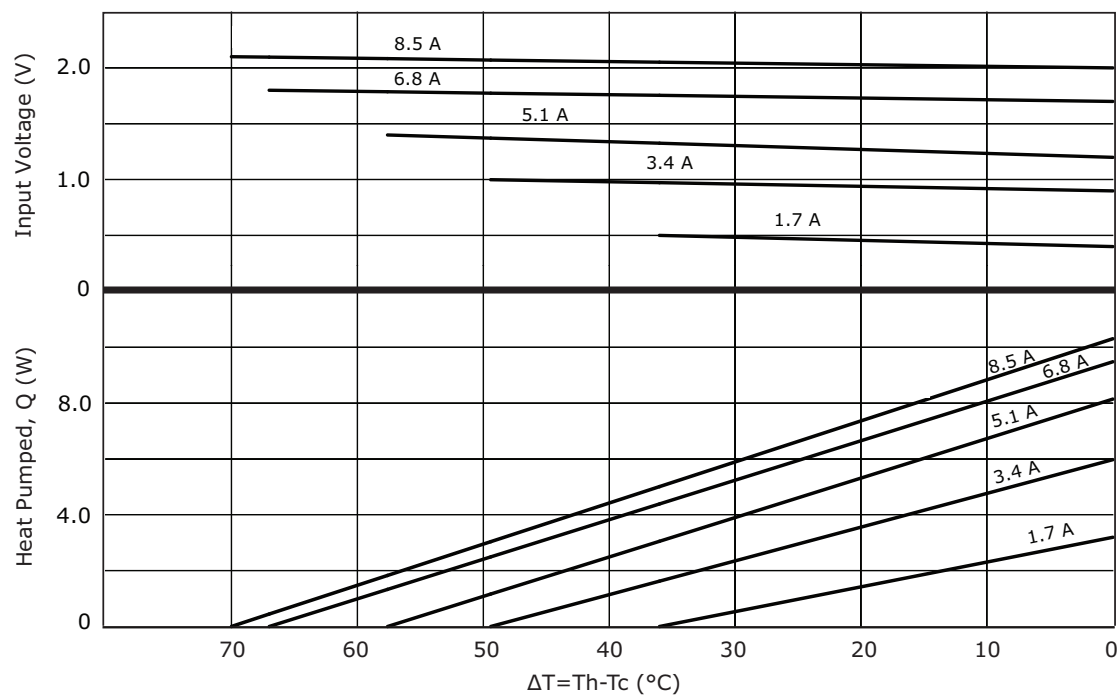
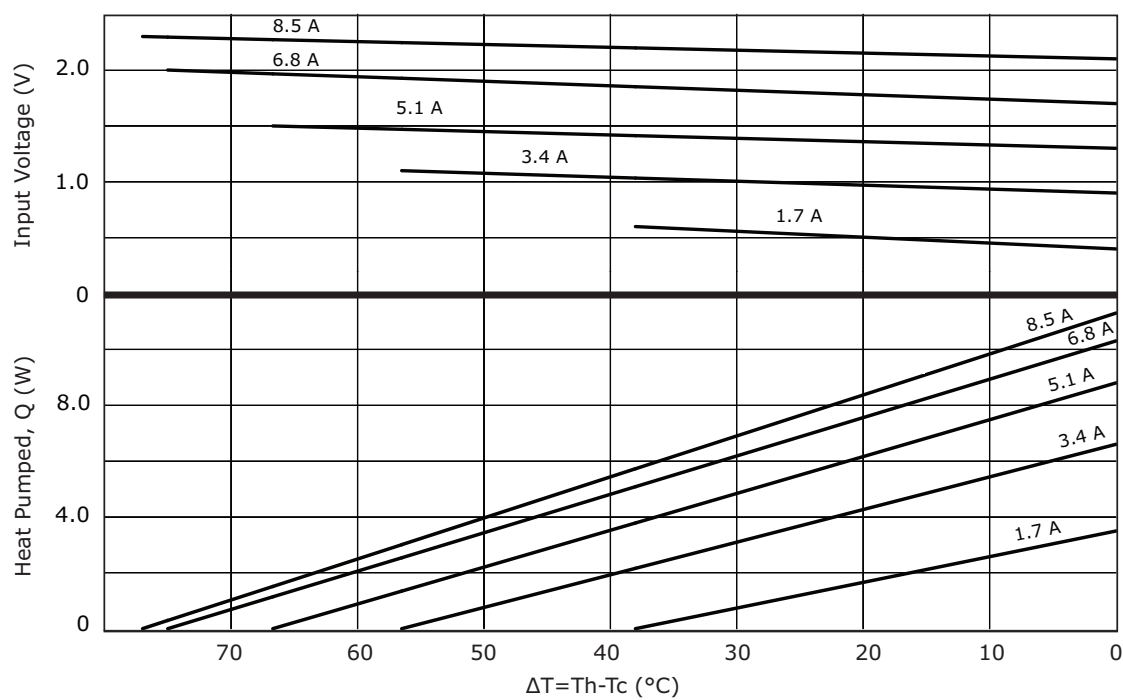
units: mm

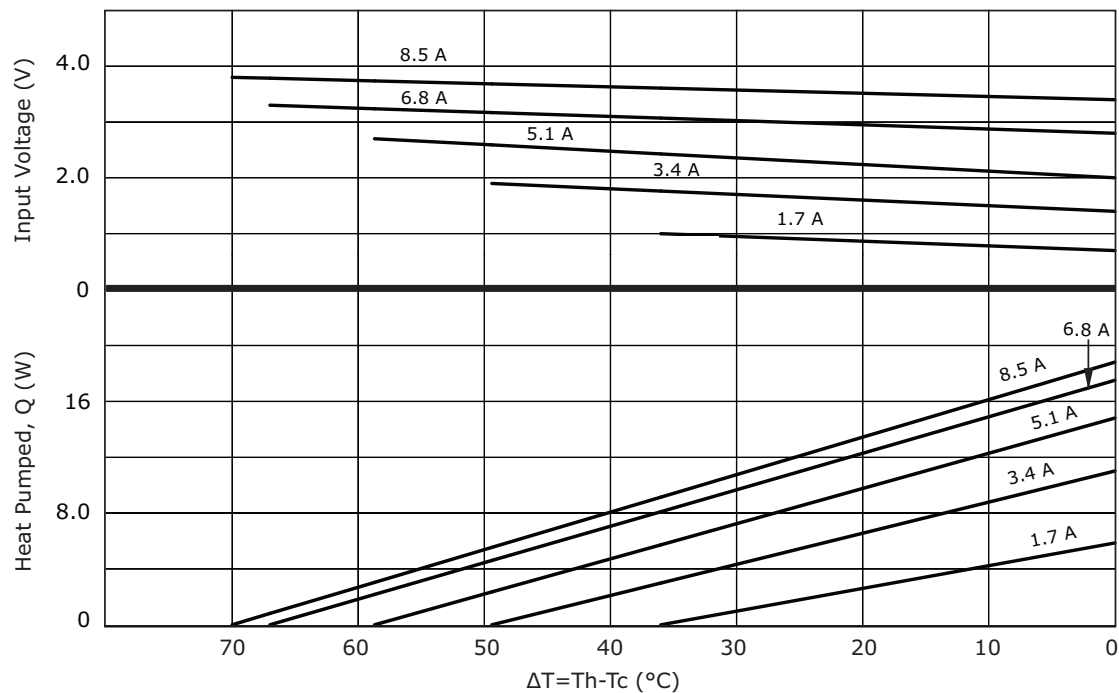
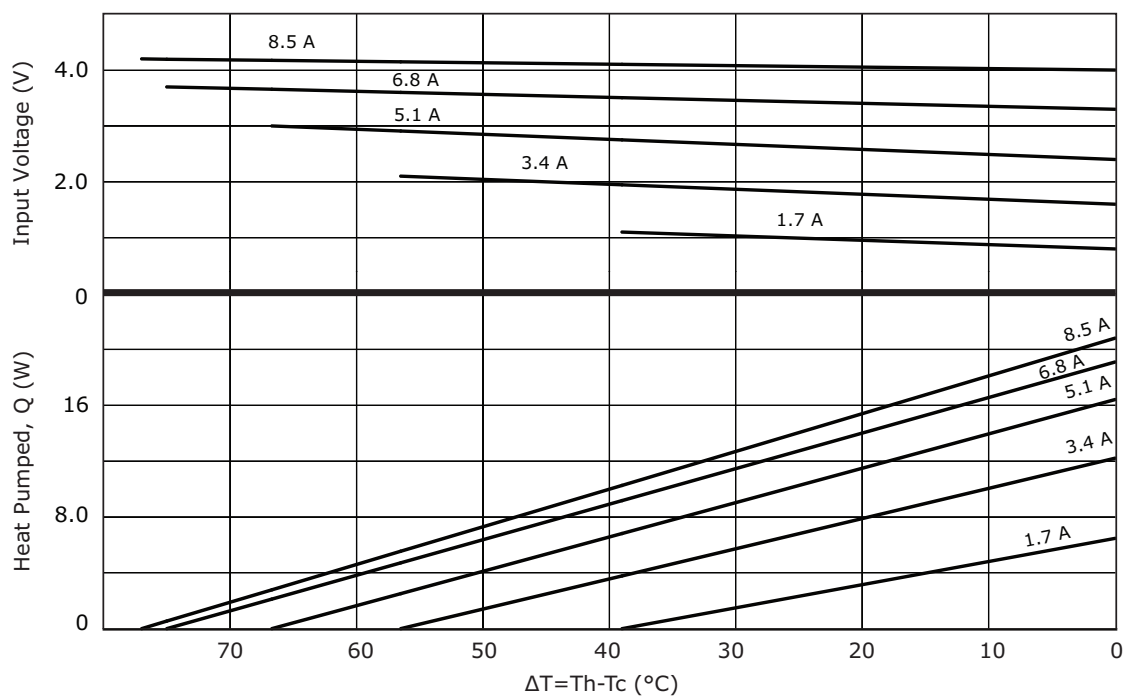


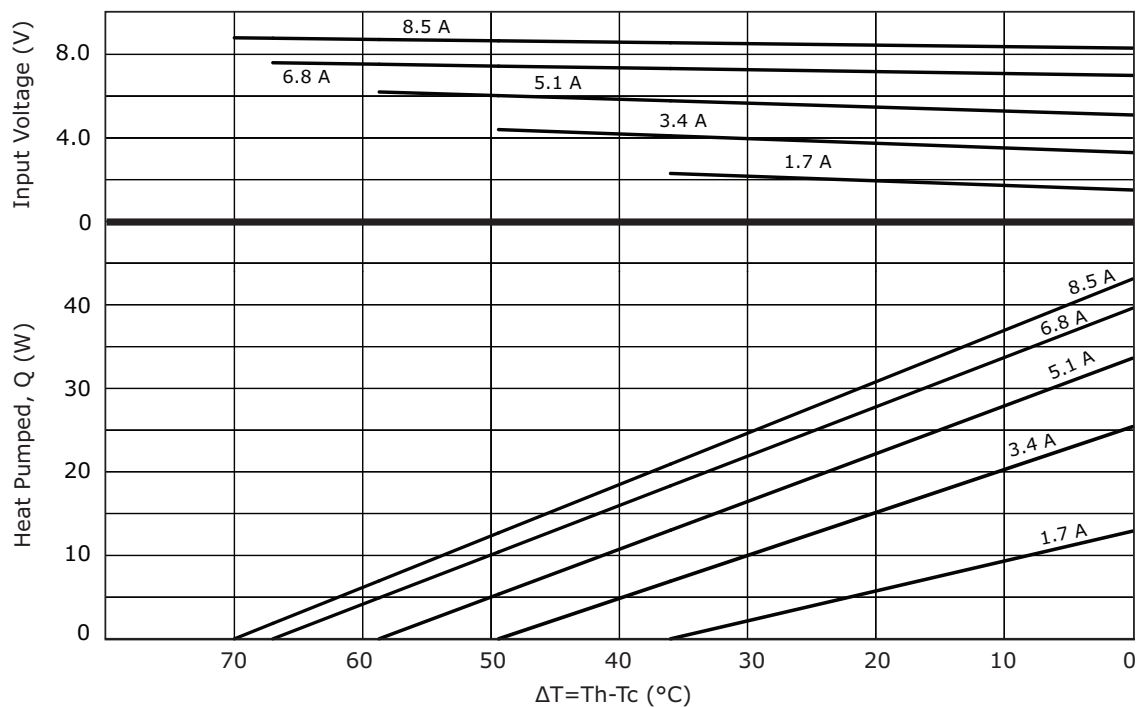
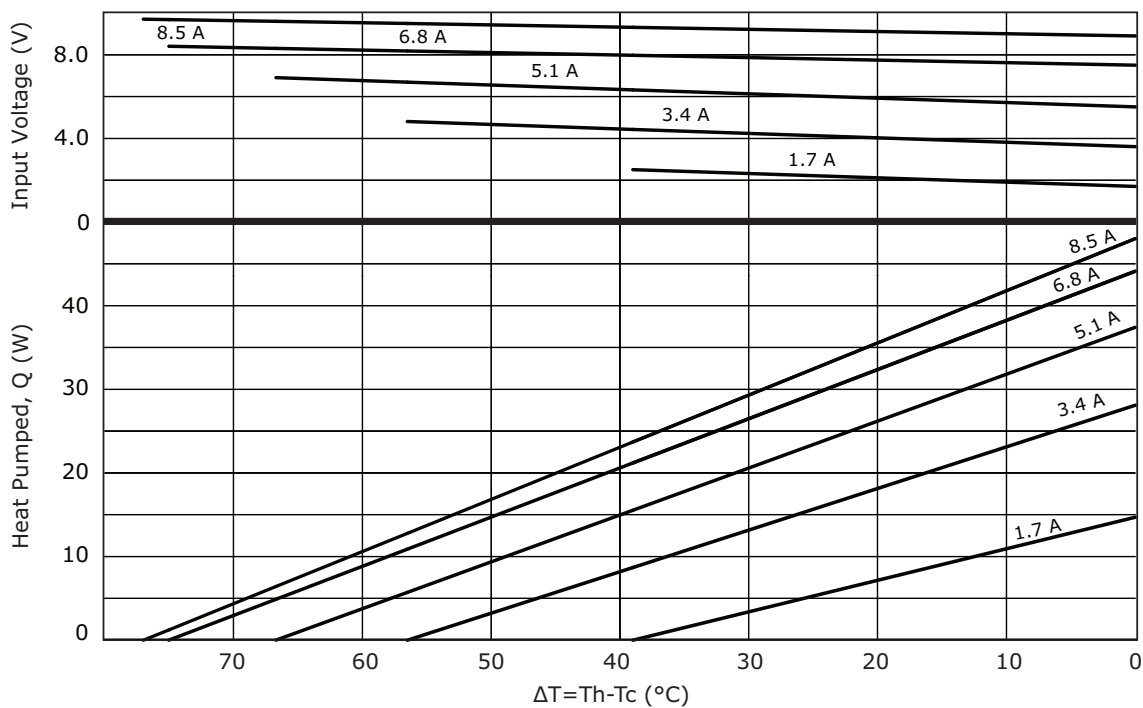
	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

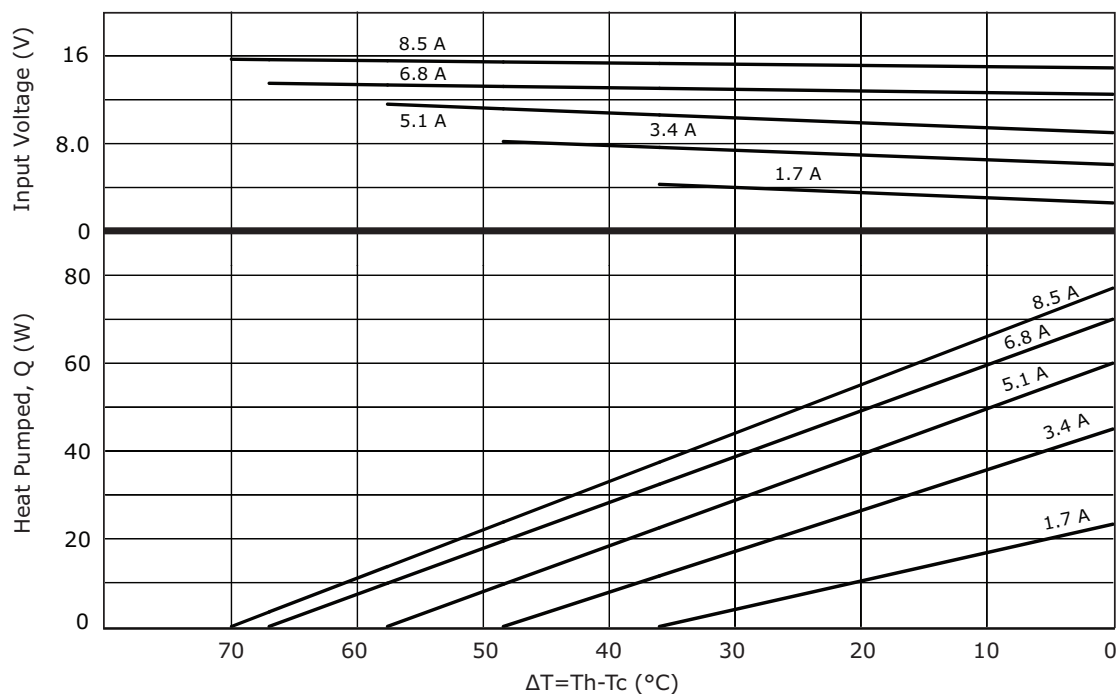
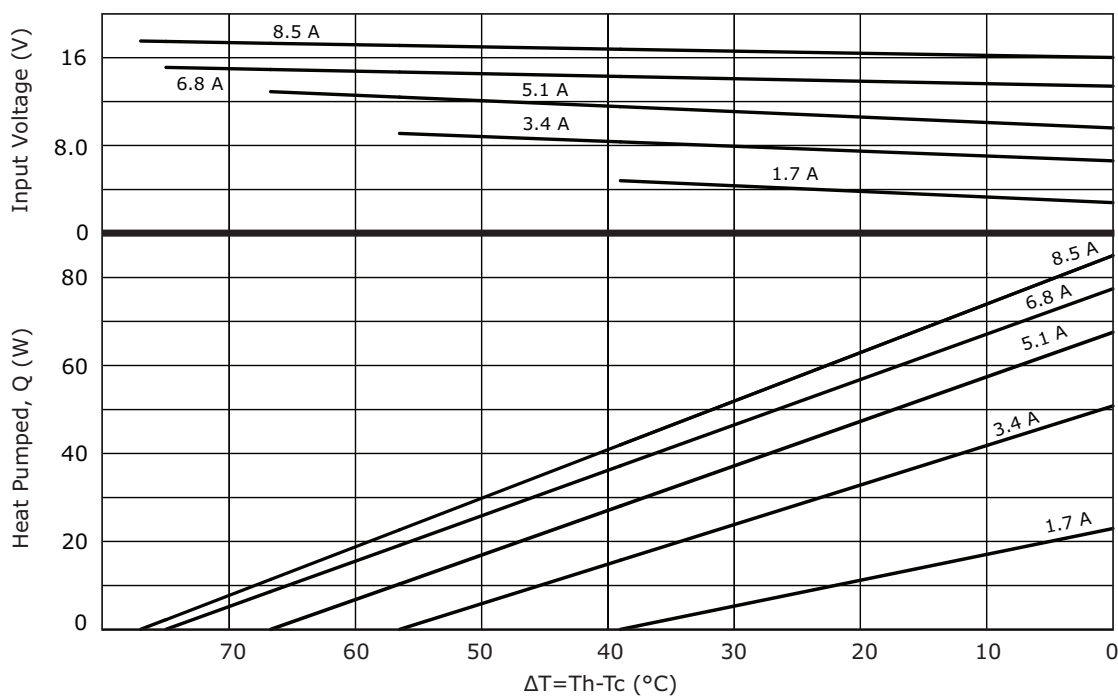


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP85134H	15 ± 0.3	15 ± 0.3	3.4 ± 0.025
CP85234H	20 ± 0.3	20 ± 0.3	3.4 ± 0.025
CP853345H	30 ± 0.3	30 ± 0.3	3.45 ± 0.025
CP854345H	40 ± 0.3	40 ± 0.3	3.45 ± 0.025

CP85134H PERFORMANCE (Th=27°C)**CP85134H PERFORMANCE (Th=50°C)**

CP85234H PERFORMANCE (Th=27°C)**CP85234H PERFORMANCE (Th=50°C)**

CP853345H PERFORMANCE (Th=27°C)**CP853345H PERFORMANCE (Th=50°C)**

CP854345H PERFORMANCE (Th=27°C)**CP854345H 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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CUI 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.