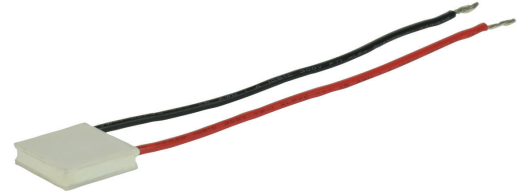


SERIES: CP39H | **DESCRIPTION:** PELTIER MODULE
FEATURES

- 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 voltage¹ max (Vdc)	input current² max (A)	internal resistance³ typ ($\Omega \pm 10\%$)	output Qmax⁴		output ΔT_{max}⁵	
				T_h=27°C (W)	T_h=50°C (W)	T_h=27°C (°C)	T_h=50°C (°C)
CP39136H	3.8	3.9	0.85	8.6	9.5	70	77
CP39236H	8.8	3.9	1.95	18.7	20.9	70	77
CP39301536H	7.6	3.9	1.73	16.5	18.1	70	77
CP393365H ⁶	15.7	3.9	3.50	35.2	39.0	70	77

Notes:

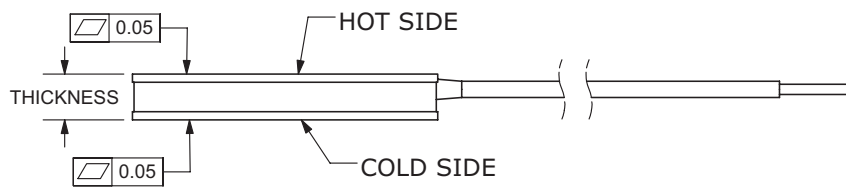
1. Maximum voltage at ΔT_{max} and T_h=27°C
2. Maximum current to achieve ΔT_{max}
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and $\Delta T=0^\circ\text{C}$
5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT_{max} measured in a vacuum at 1.3 Pa)
6. Designed with arcTEC™ structure.

SPECIFICATIONS

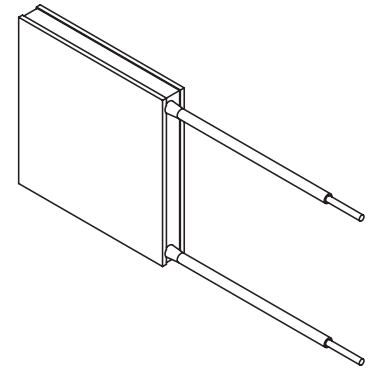
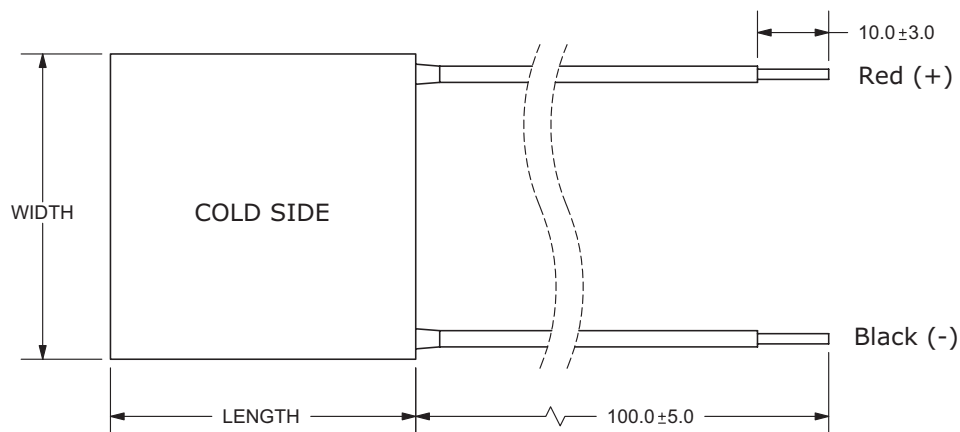
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

MECHANICAL DRAWING

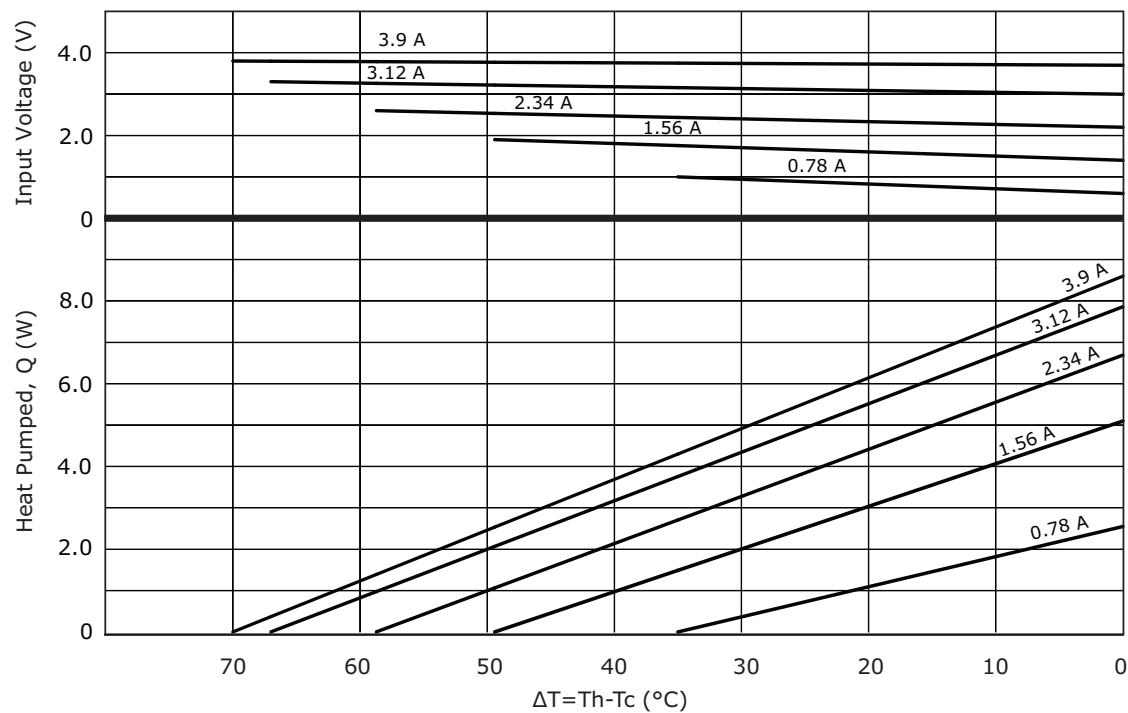
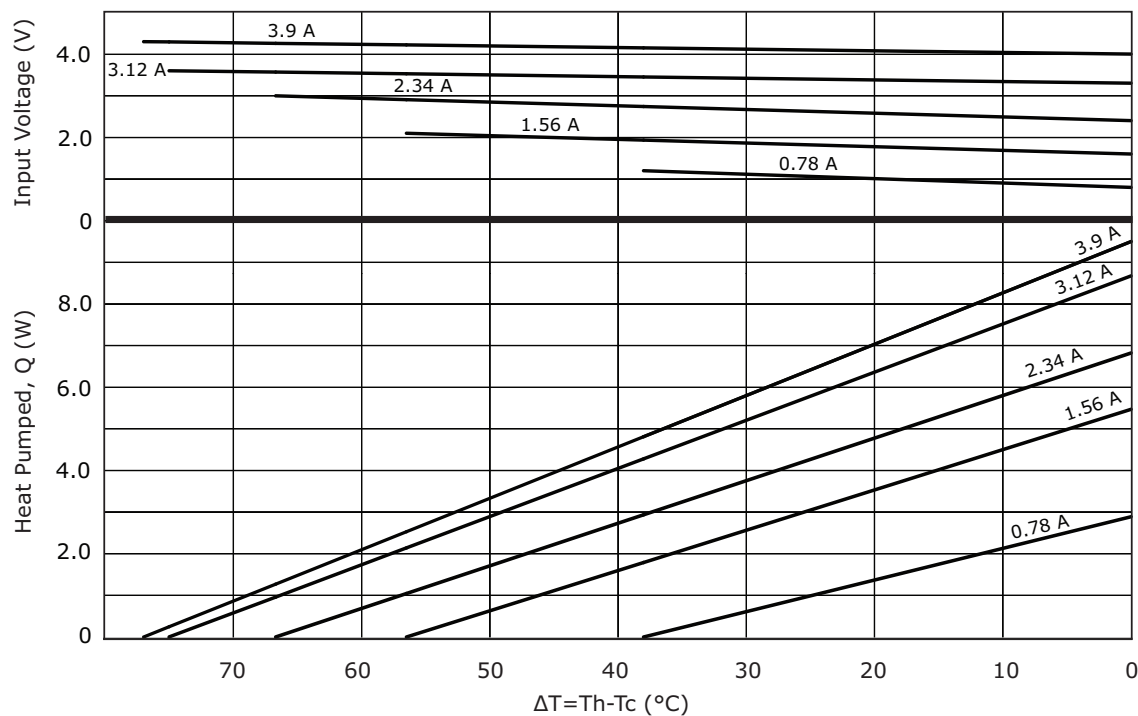
units: mm

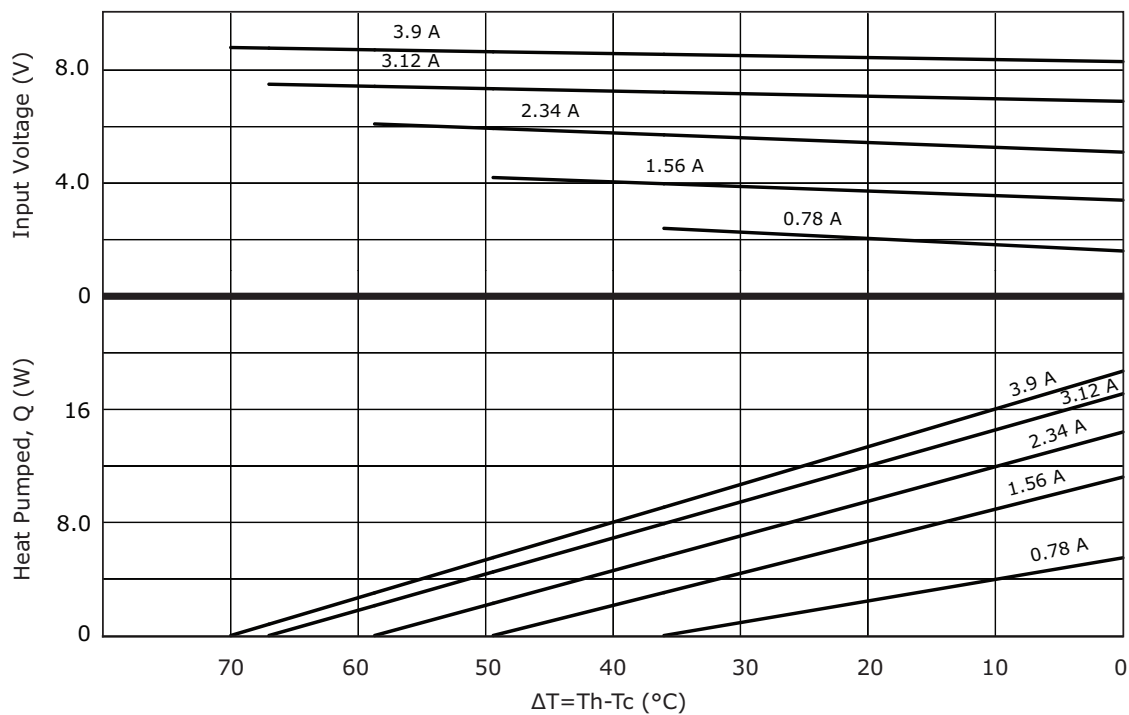
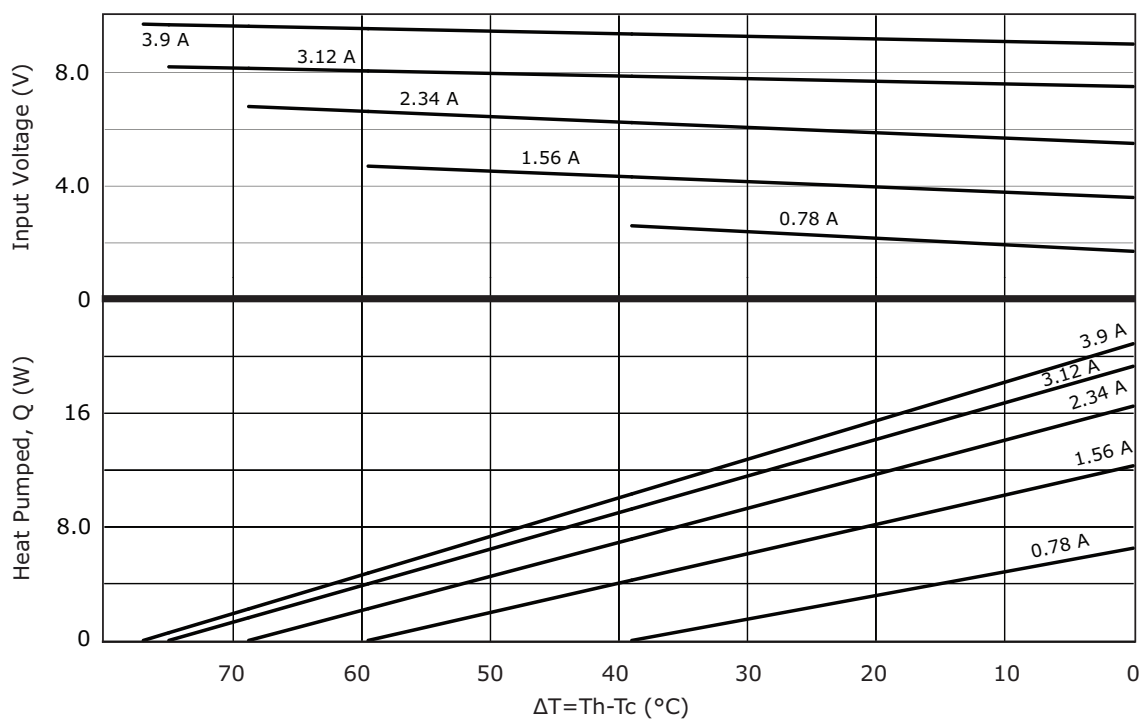


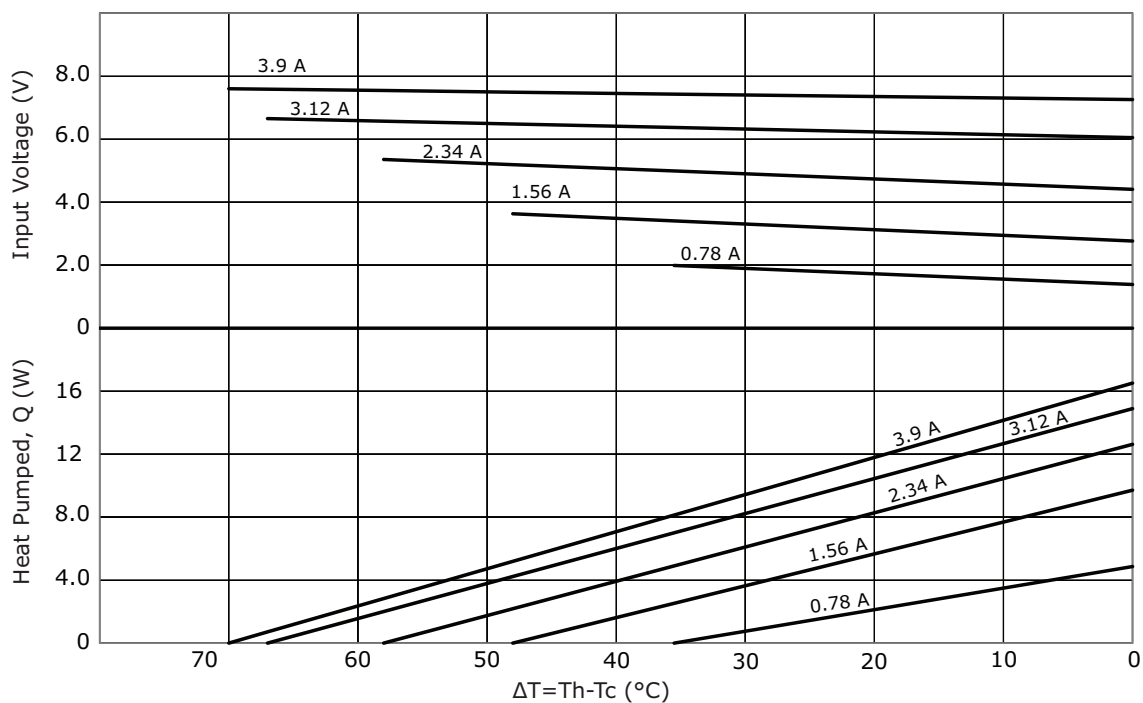
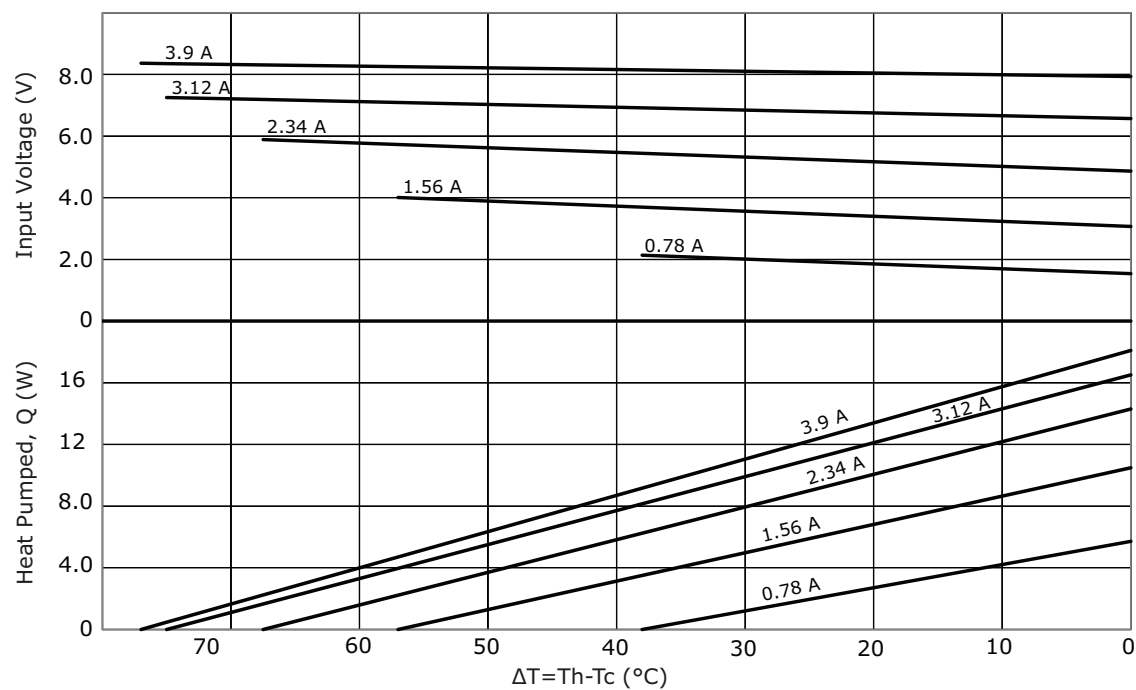
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

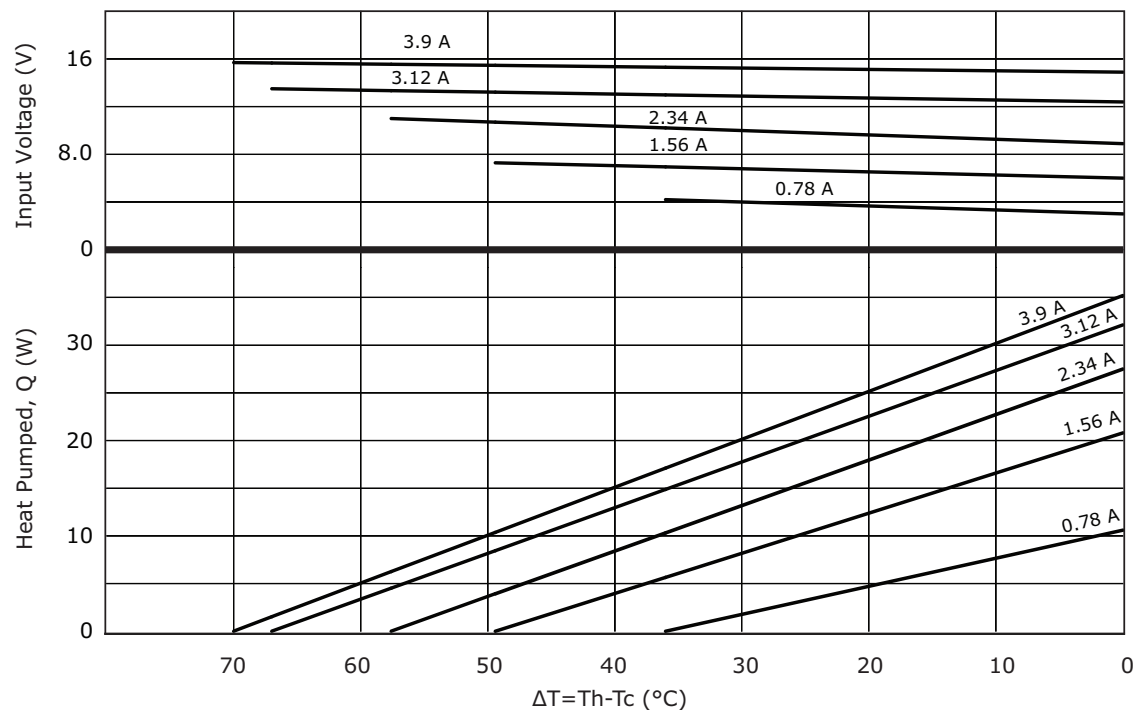
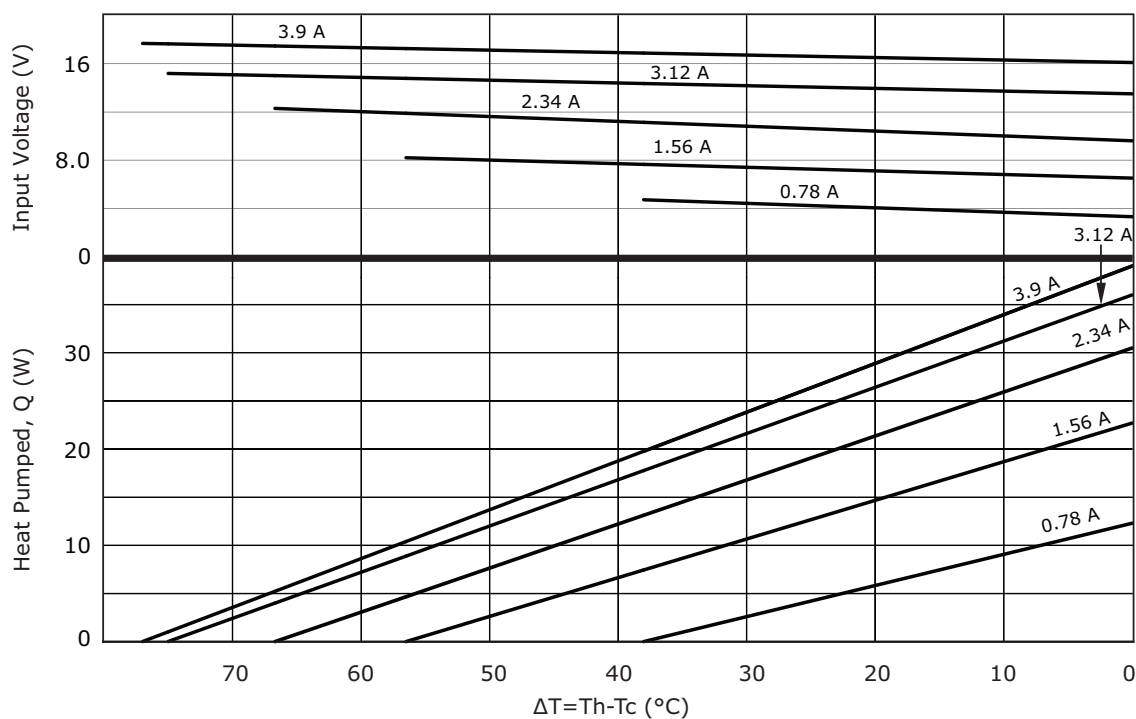


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP39136H	15 ± 0.3	15 ± 0.3	3.6 ± 0.025
CP39236H	20 ± 0.3	20 ± 0.3	3.6 ± 0.025
CP39301536H	30 ± 0.3	15 ± 0.3	3.6 ± 0.025
CP393365H	30 ± 0.3	30 ± 0.3	3.65 ± 0.025

CP39136H PERFORMANCE (Th=27°C)**CP39136H PERFORMANCE (Th=50°C)**

CP39236H PERFORMANCE (Th=27°C)**CP39236H PERFORMANCE (Th=50°C)**

CP39301536H PERFORMANCE (Th=27°C)**CP39301536H PERFORMANCE (Th=50°C)**

CP393365H PERFORMANCE (Th=27°C)**CP393365H PERFORMANCE (Th=50°C)**

REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	updated datasheet	09/25/2017
1.02	added new model	05/21/2018

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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