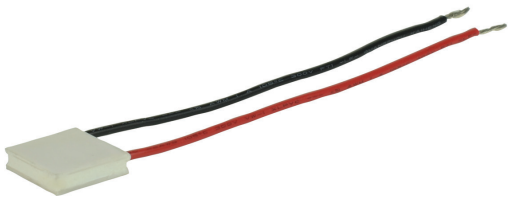




SERIES: CP39H | DESCRIPTION: PELTIER MODULE

FEATURES

- solid state device
- high performance cooler
- precise temperature control
- quiet operation

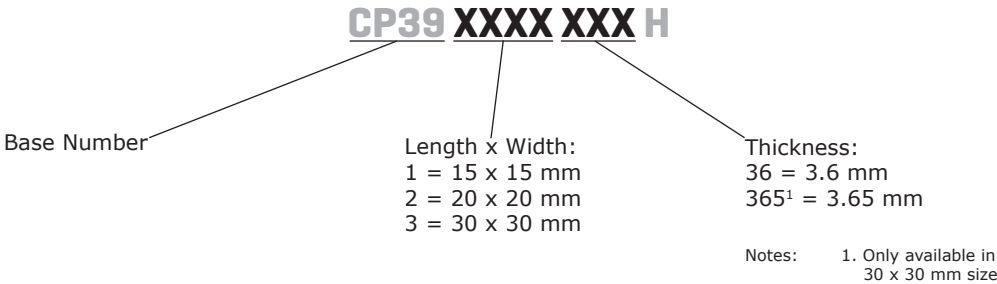


MODEL

MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	output Qmax ³		output ΔTmax ⁴	
			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	8.6	9.5	70	77
CP39236H	8.8	3.9	18.7	20.9	70	77
CP393365H	15.7	3.9	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. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
 4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY



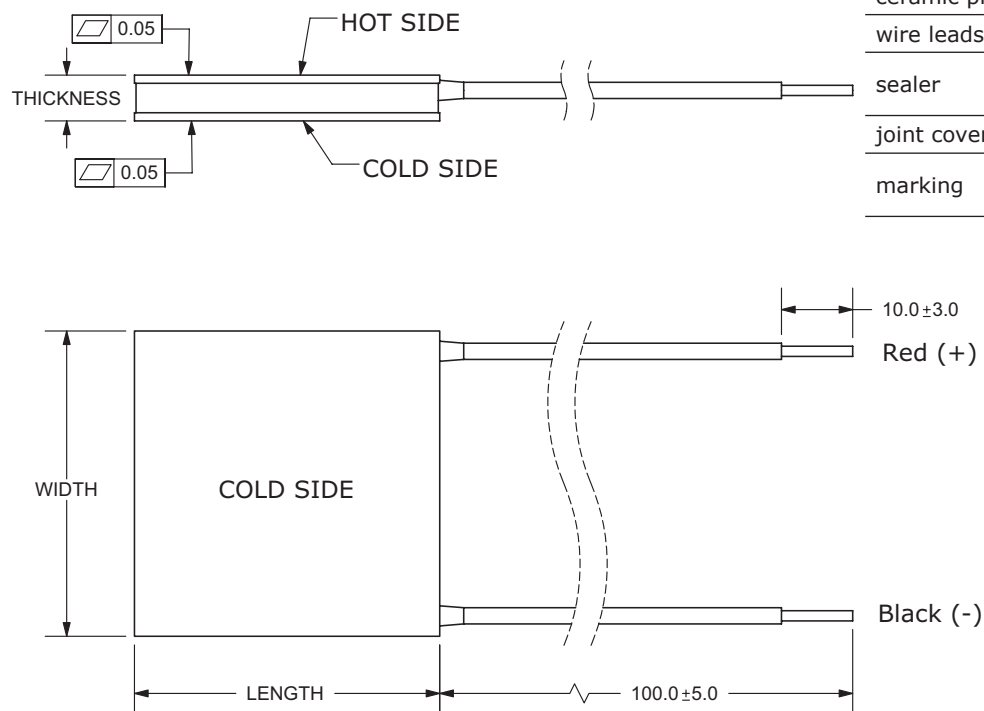
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	CP39136H	0.765	0.85	0.935	Ω
	CP39236H	1.755	1.95	2.145	Ω
	CP393365H	3.15	3.50	3.85	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

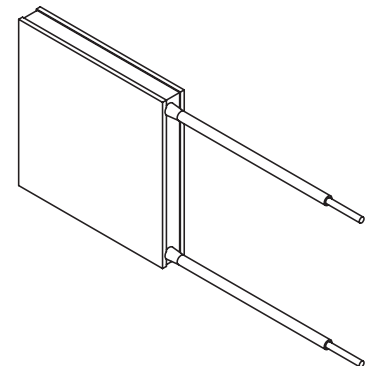
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

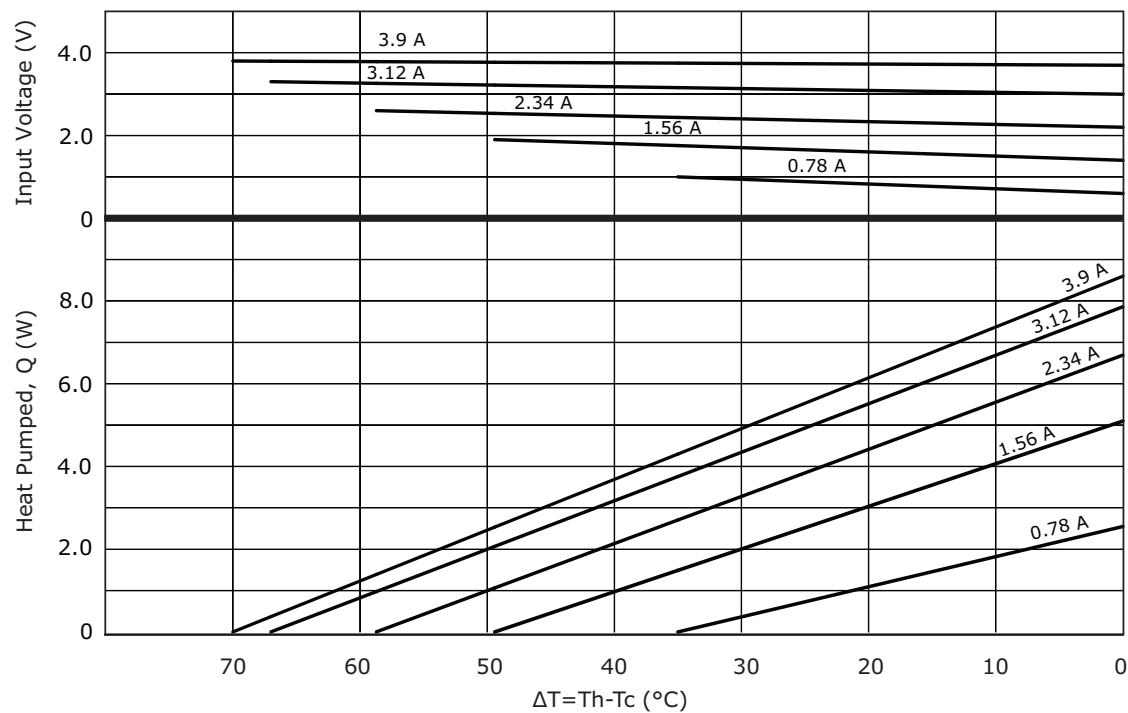
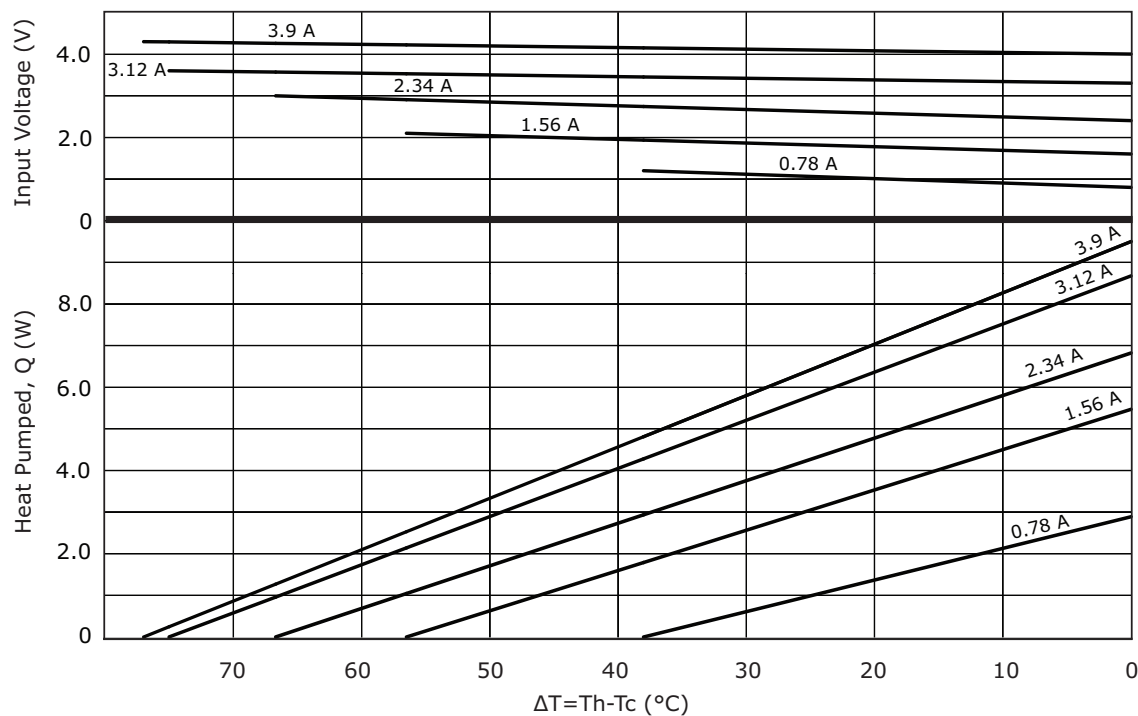
units: mm

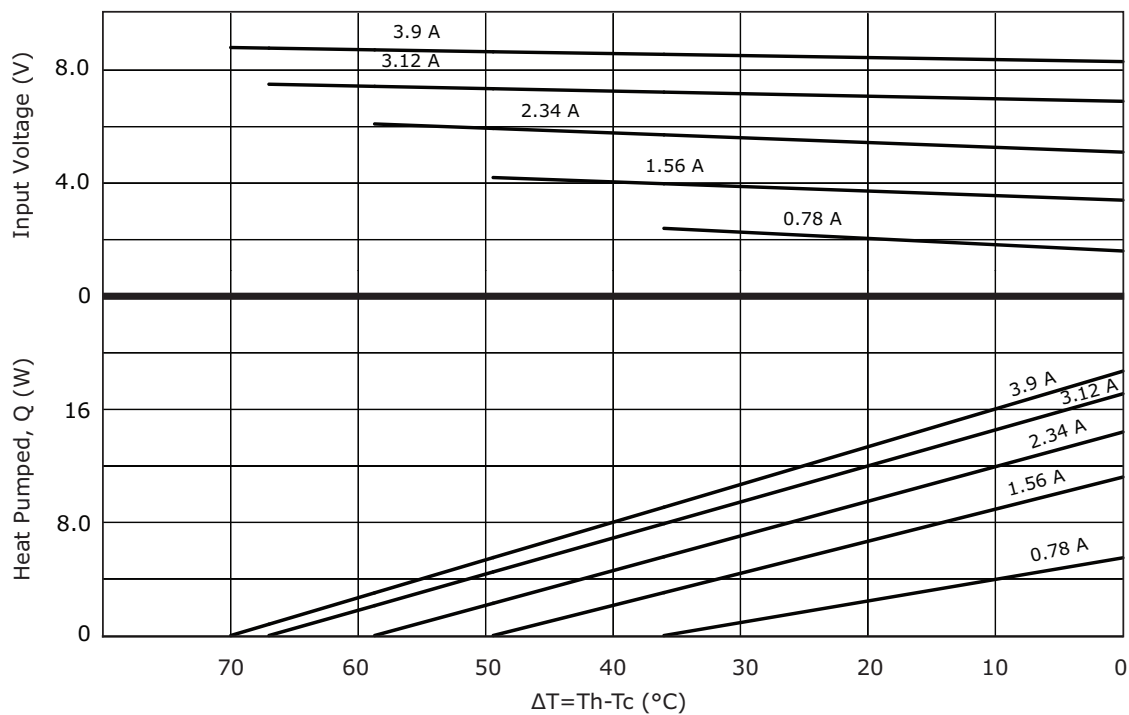
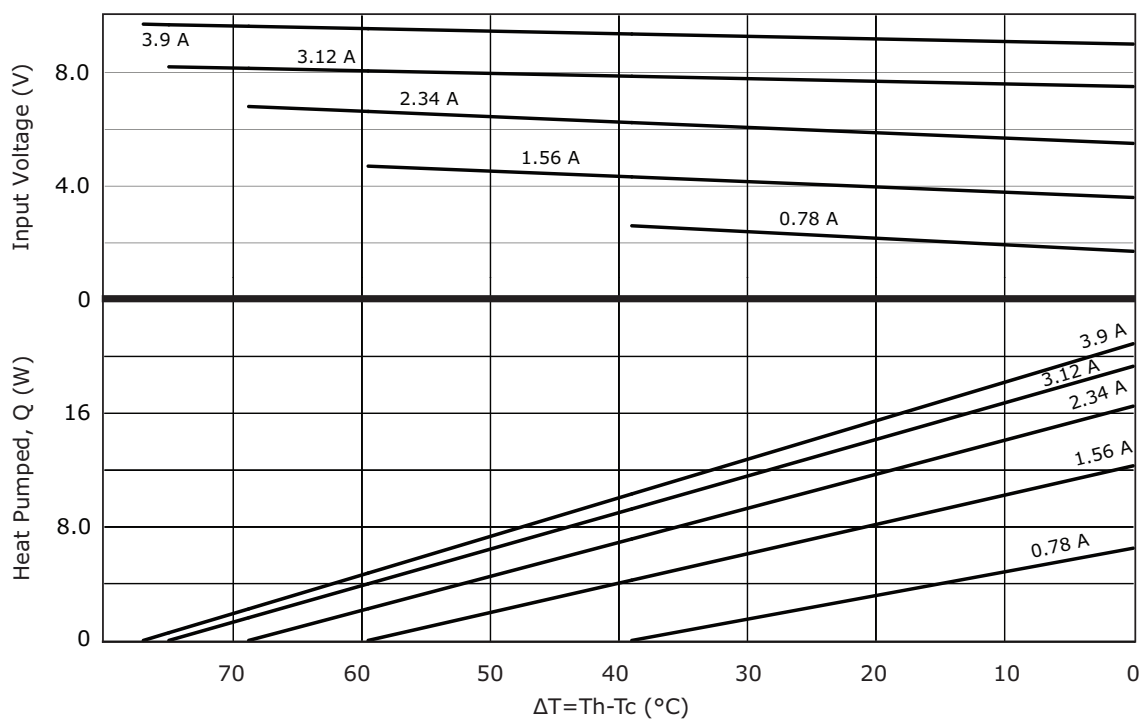


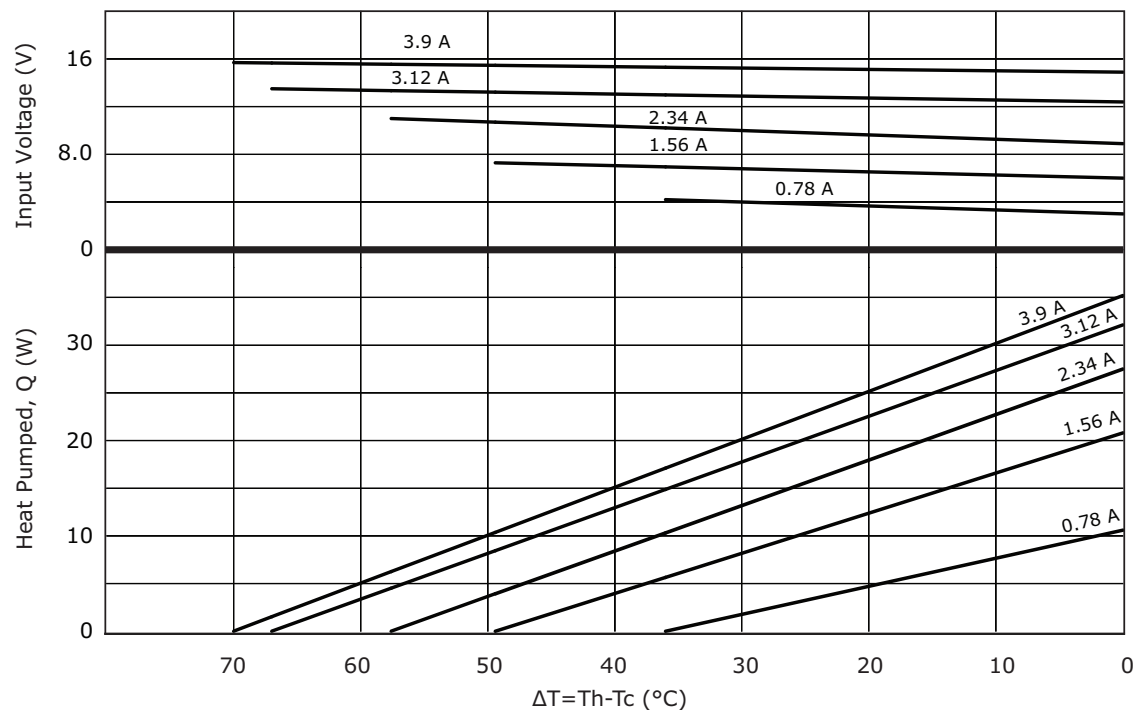
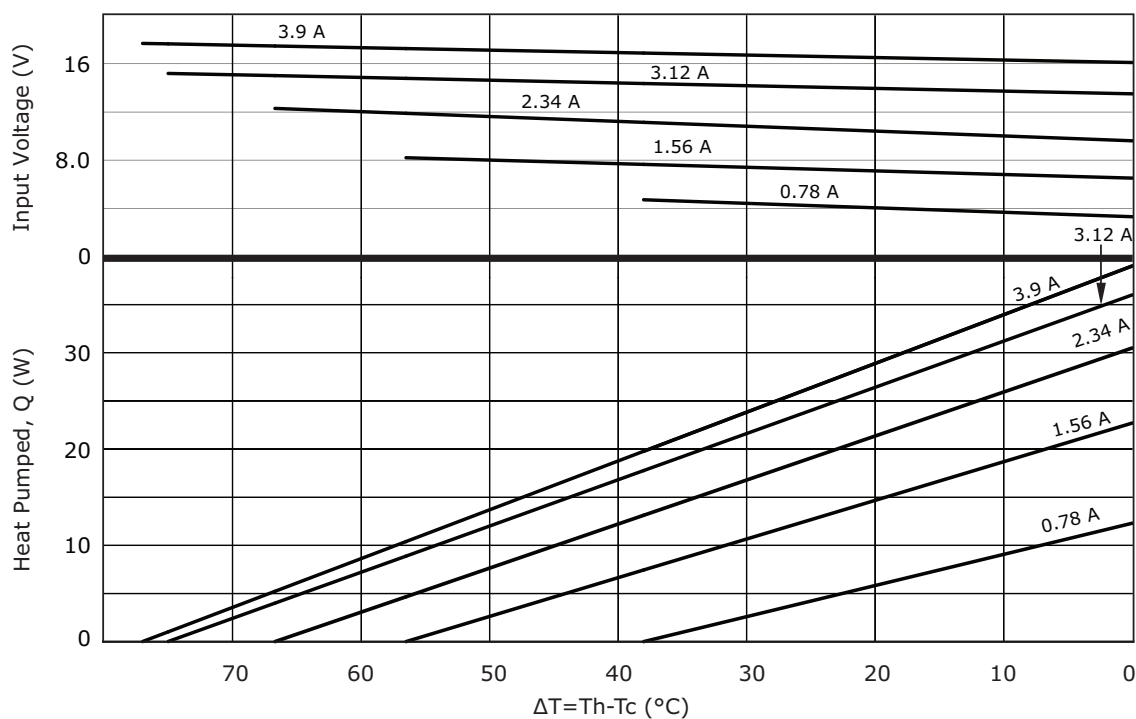
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	22 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



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
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)**

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

REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016

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



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