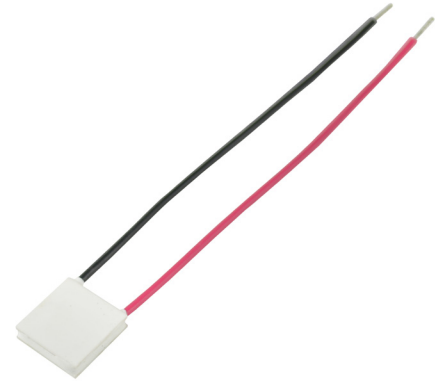


**SERIES:** CP70 | **DESCRIPTION:** PELTIER MODULE

**FEATURES**

- solid state device
- precise temperature control
- quiet operation

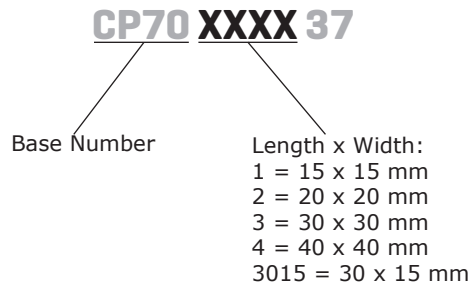


**MODEL**

MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	output Qmax <sup>3</sup>		output ΔTmax <sup>4</sup>	
			T <sub>n</sub> =27°C (W)	T <sub>n</sub> =50°C (W)	T <sub>n</sub> =27°C (°C)	T <sub>n</sub> =50°C (°C)
CP70137	2.1	7.0	7.5	8.3	68	75
CP70237	3.8	7.0	13.6	15.1	68	75
CP70301537	4.2	7.0	15.4	17.1	68	75
CP70337	8.6	7.0	31.0	34.6	68	75
CP70437	15.4	7.0	55.0	60.5	68	75

- Notes:
1. Maximum voltage at ΔT max and T<sub>n</sub>=27°C
  2. Maximum current to achieve ΔT max
  3. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and ΔT=0°C
  4. 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)

**PART NUMBER KEY**



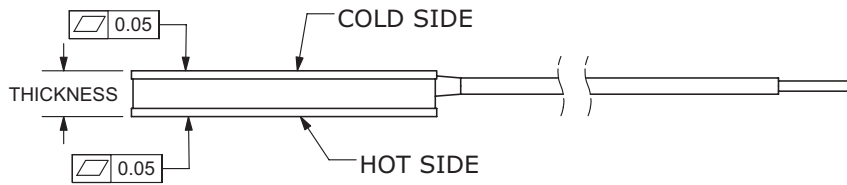
## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance <sup>1</sup>	CP70137	0.216	0.24	0.264	Ω
	CP70237	0.378	0.42	0.462	Ω
	CP70301537	0.432	0.48	0.528	Ω
	CP70337	0.9	1.0	1.1	Ω
	CP70437	1.575	1.75	1.925	Ω
solder melting temperature	connection between thermoelectric pairs	138			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

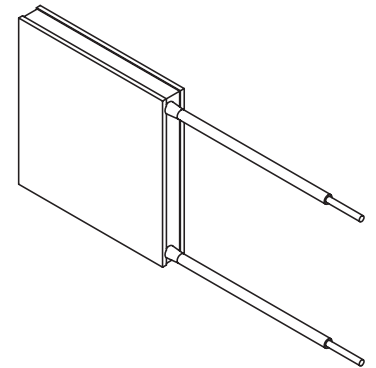
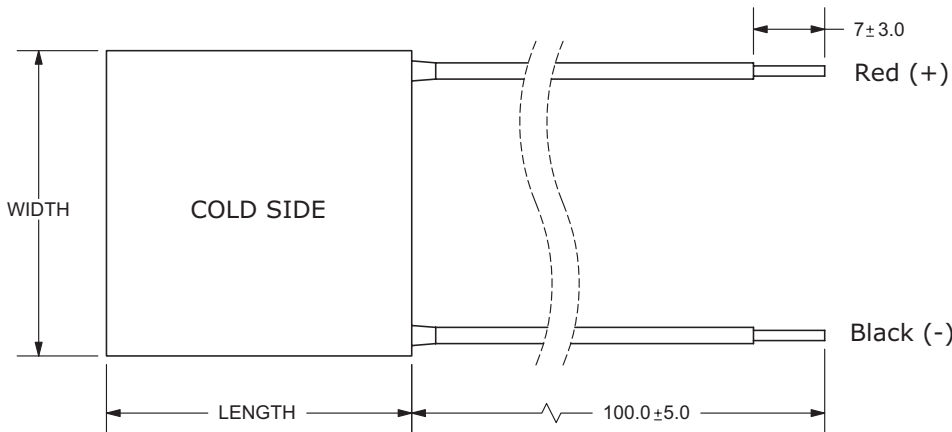
Note: 1. Measured by AC 4-terminal method at 25°C

## MECHANICAL DRAWING

units: mm

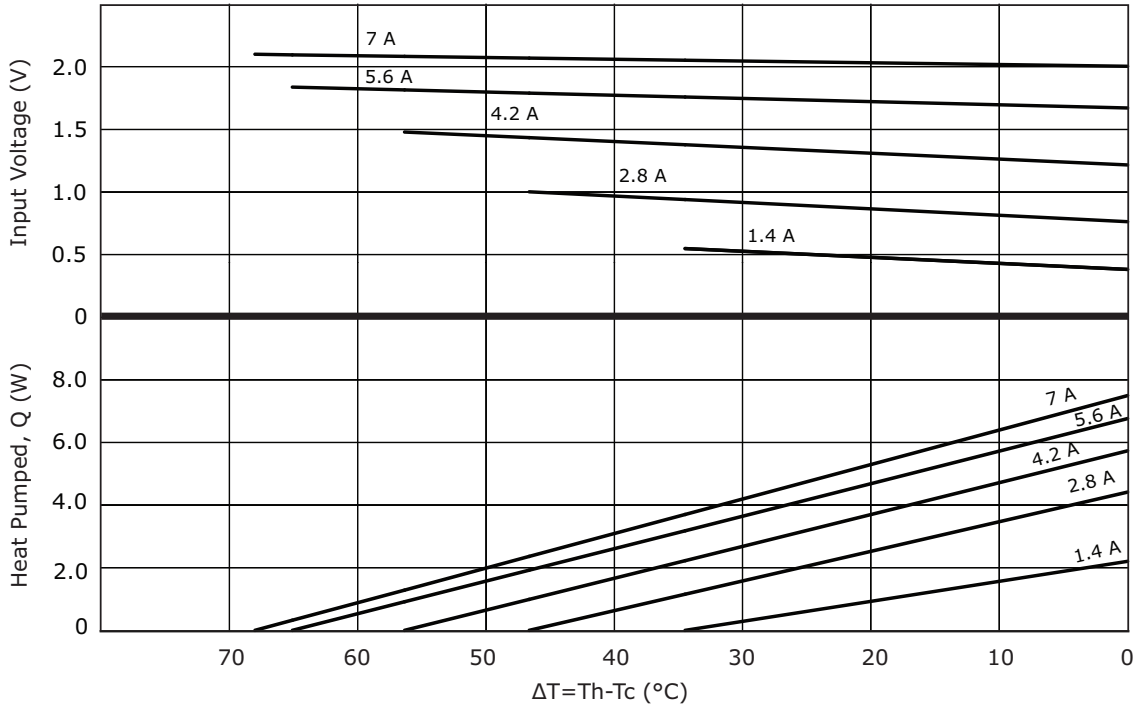


	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

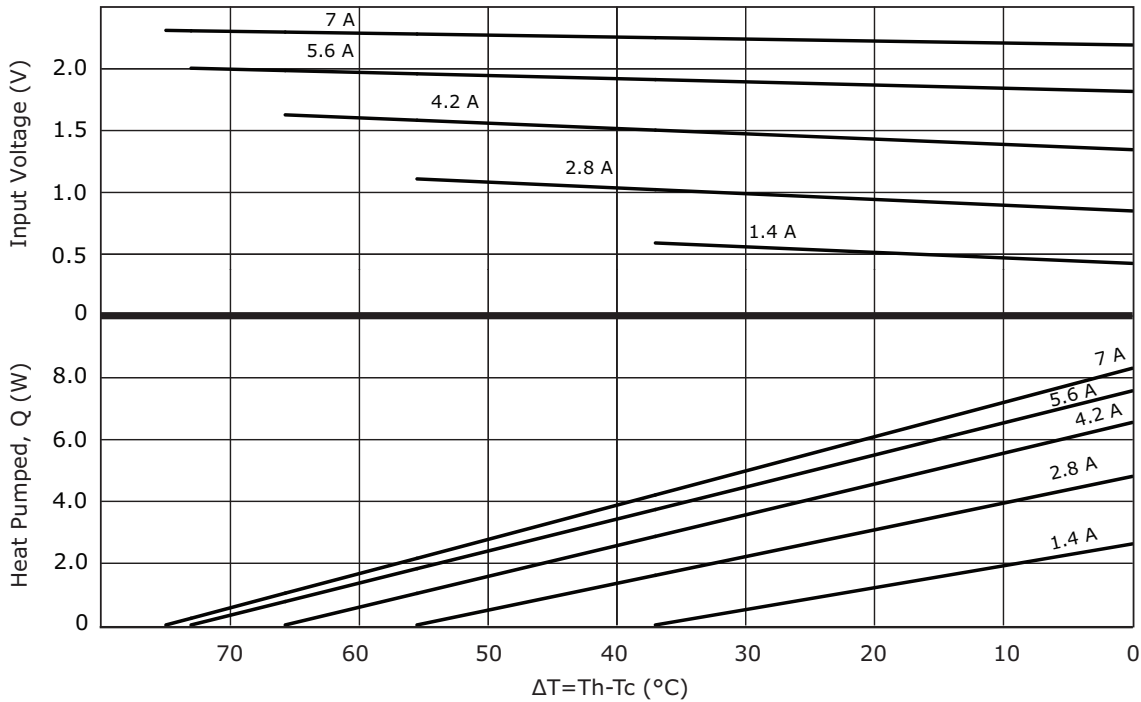


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP70137	15 ±0.3	15 ±0.3	3.8 ±0.1
CP70237	20 ±0.3	20 ±0.3	3.8 ±0.1
CP70301537	30 ±0.3	15 ±0.3	3.8 ±0.1
CP70337	30 ±0.3	30 ±0.3	3.8 ±0.1
CP70437	40 ±0.3	40 ±0.3	3.8 ±0.1

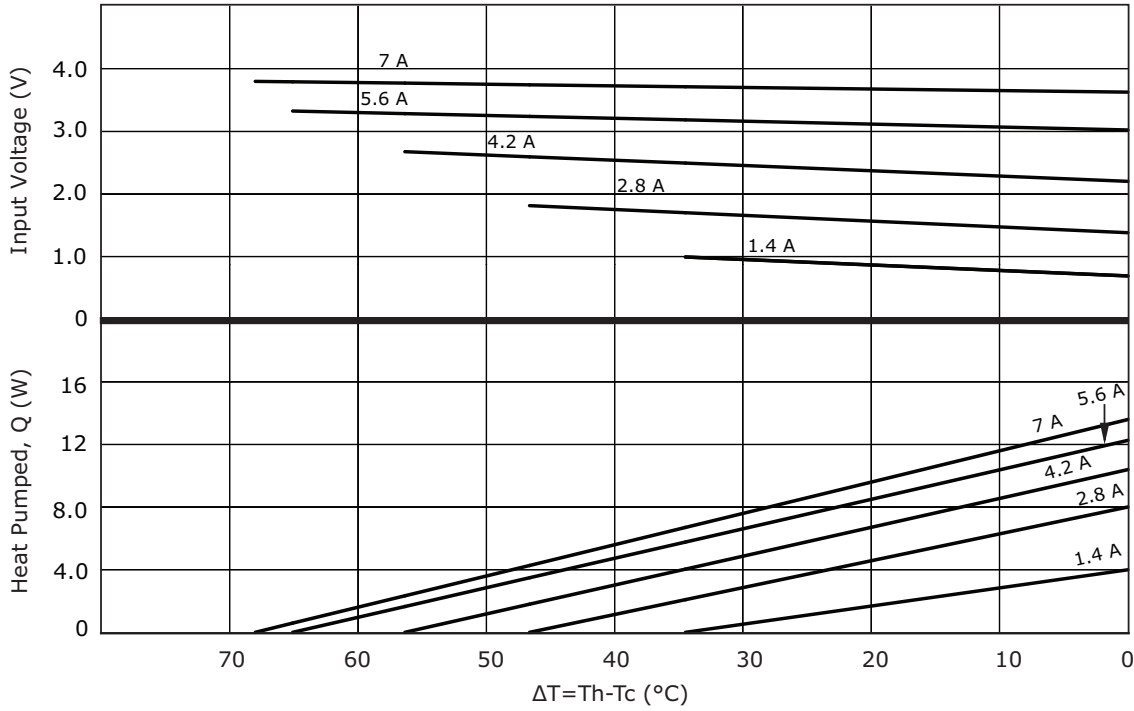
### CP70137 PERFORMANCE (Th=27°C)



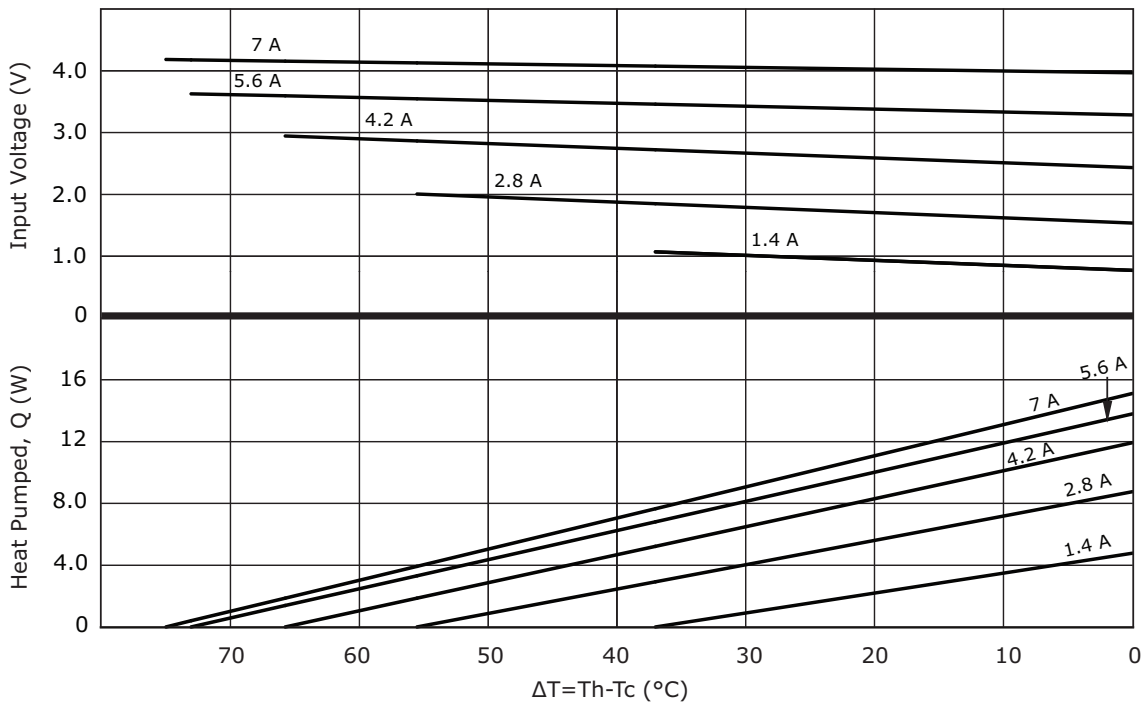
### CP70137 PERFORMANCE (Th=50°C)



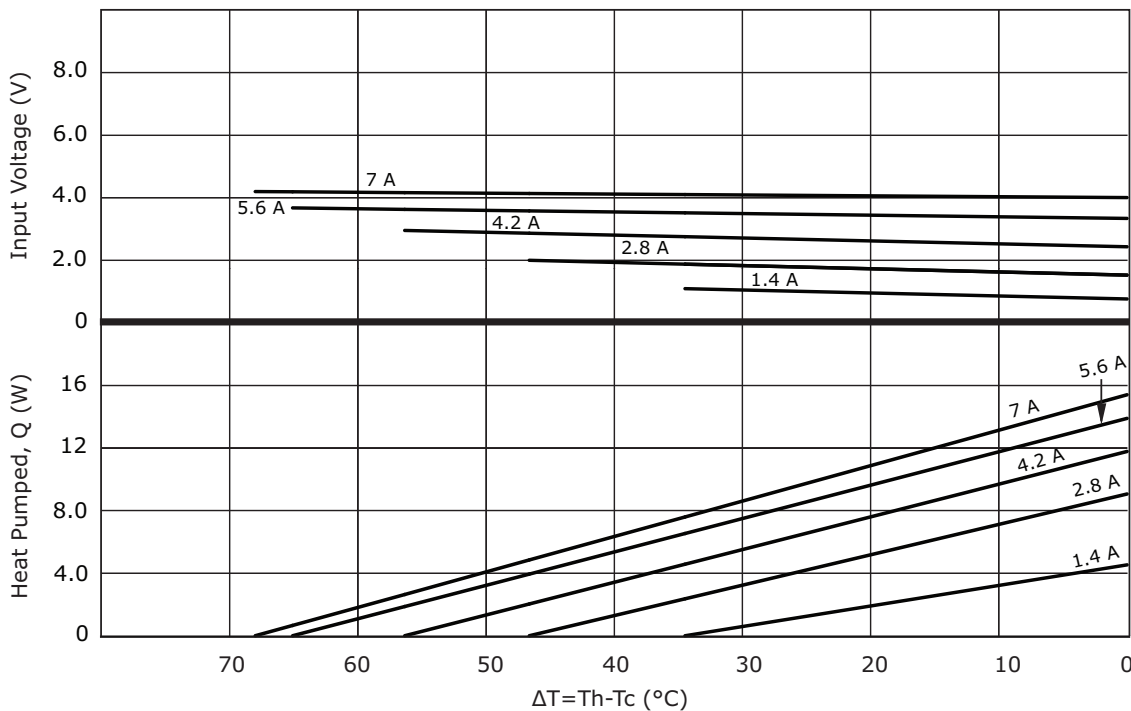
### CP70237 PERFORMANCE (Th=27°C)



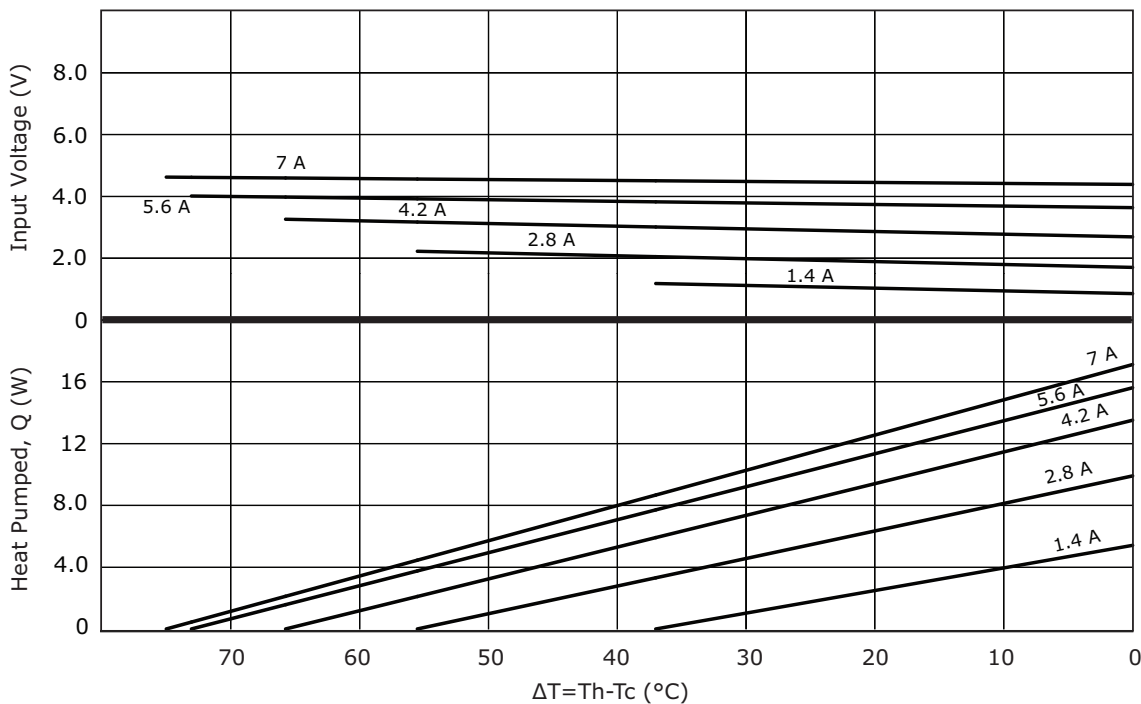
### CP70237 PERFORMANCE (Th=50°C)



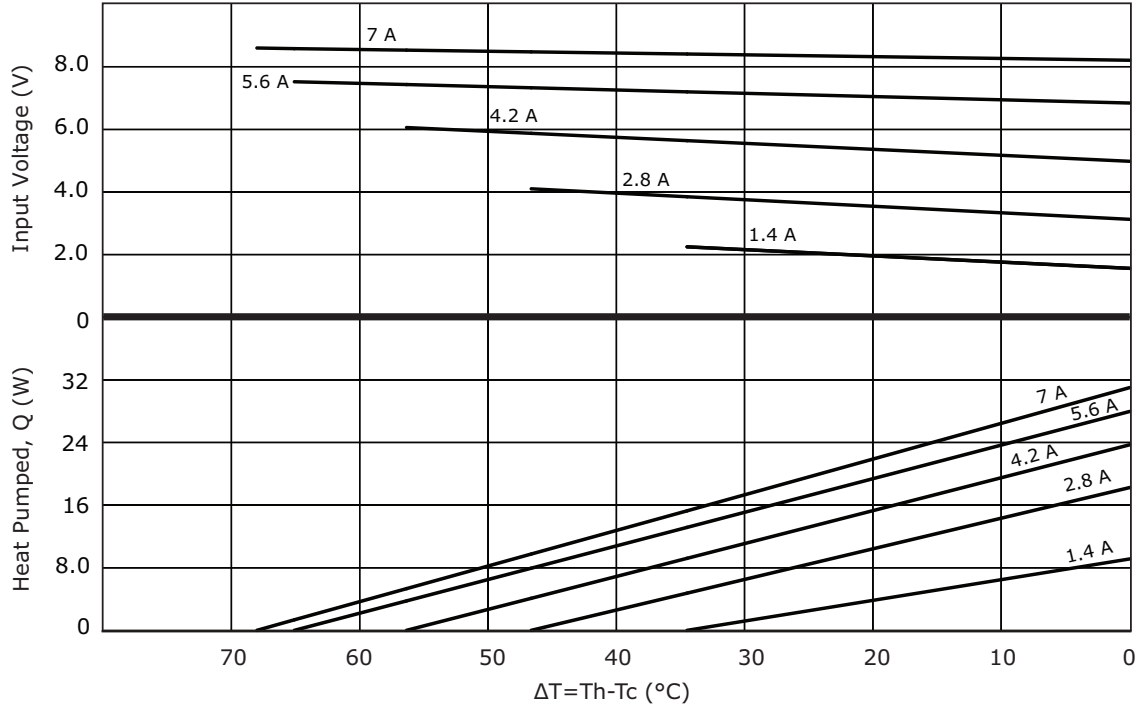
### CP70301537 PERFORMANCE (Th=27°C)



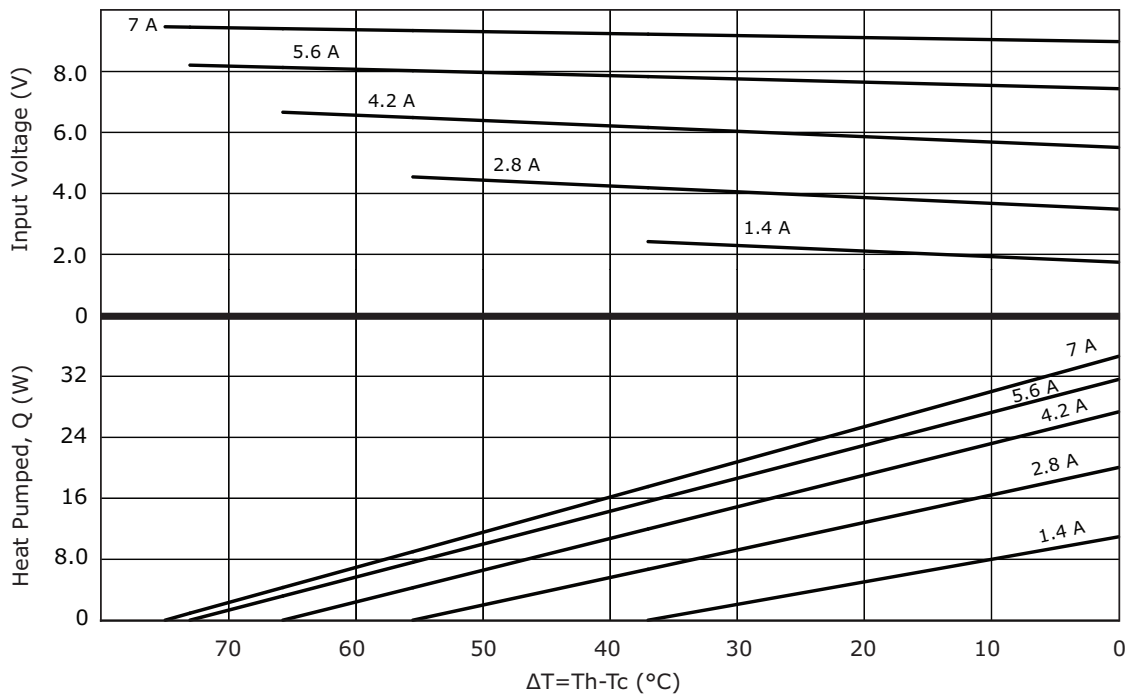
### CP70301537 PERFORMANCE (Th=50°C)



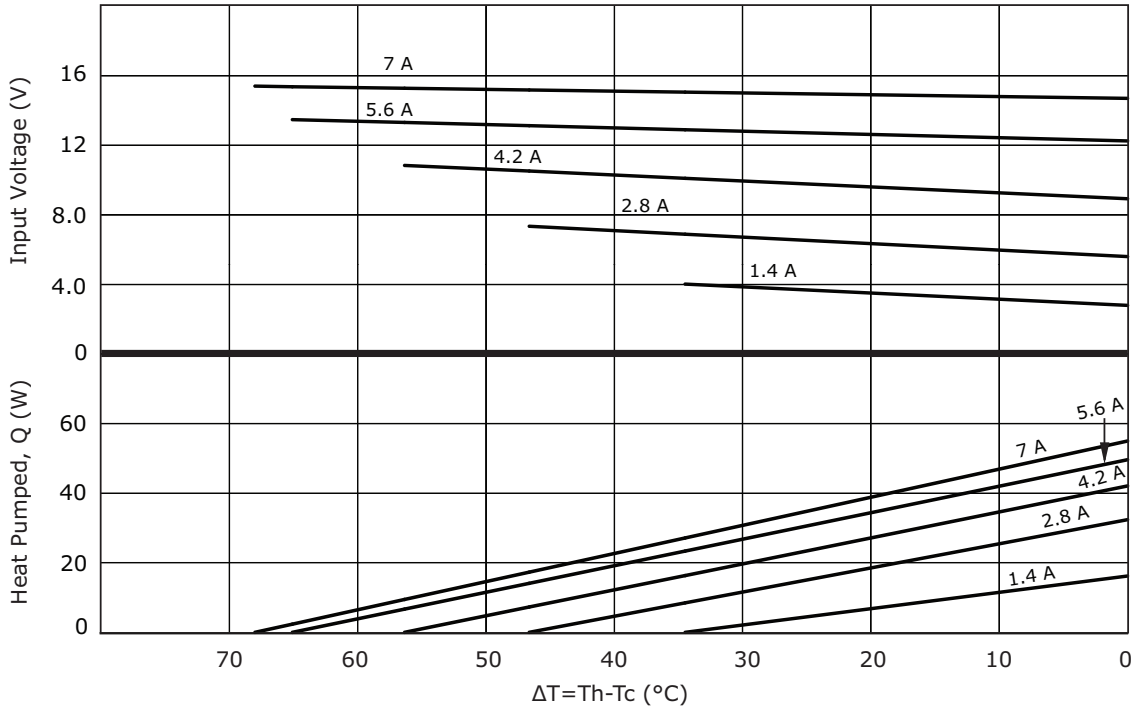
### CP70337 PERFORMANCE (Th=27°C)



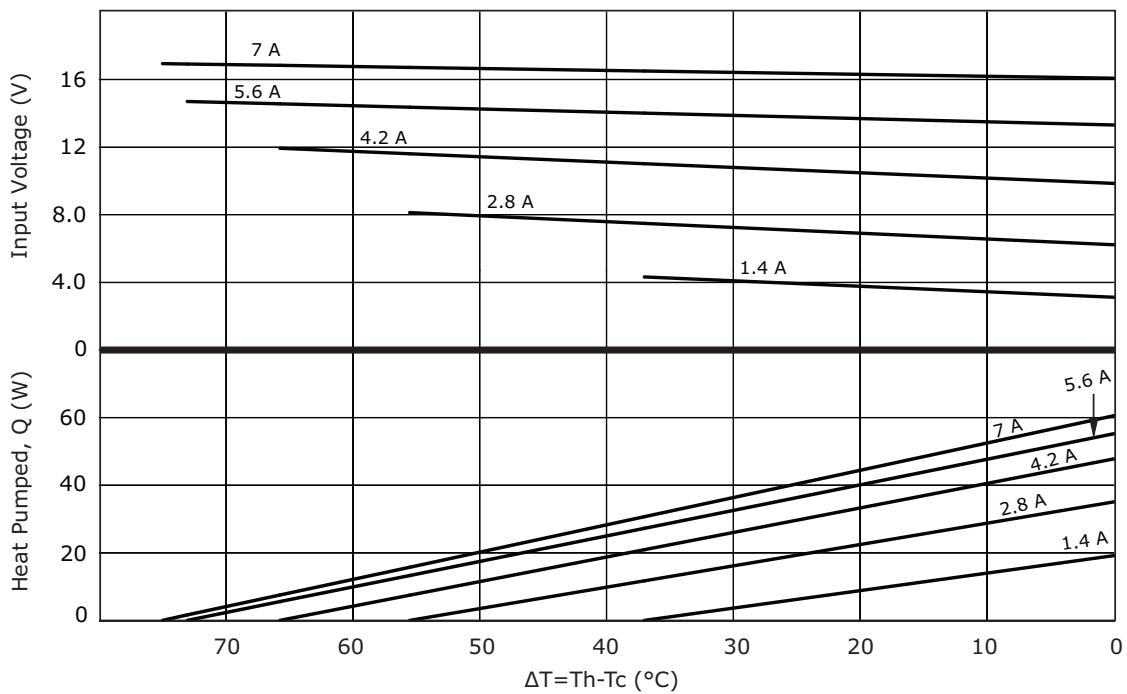
### CP70337 PERFORMANCE (Th=50°C)



### CP70437 PERFORMANCE (Th=27°C)



### CP70437 PERFORMANCE (Th=50°C)



## REVISION HISTORY

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rev.	description	date
1.0	initial release	09/02/2016

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



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