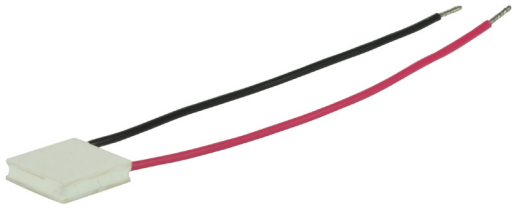
SERIES: CP70 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure on select models
- solid state device
- precise temperature control
- quiet operation



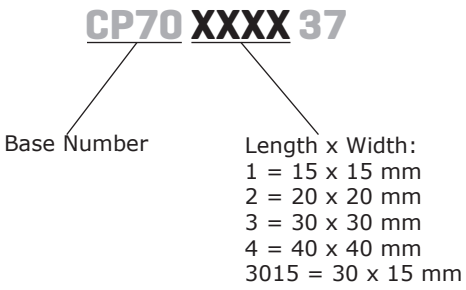
RoHS

MODEL

MODEL	input voltage[1] max (Vdc)	input current[2] max (A)	output Qmax[3] T_h=27°C (W)	output Qmax[3] T_h=50°C (W)	output ΔTmax[4] T_h=27°C (°C)	output ΔTmax[4] T_h=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[5]	8.6	7.0	31.0	34.6	70	77
CP70437[5]	15.4	7.0	55.0	60.5	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)
5. Designed with arcTEC™ structure

PART NUMBER KEY



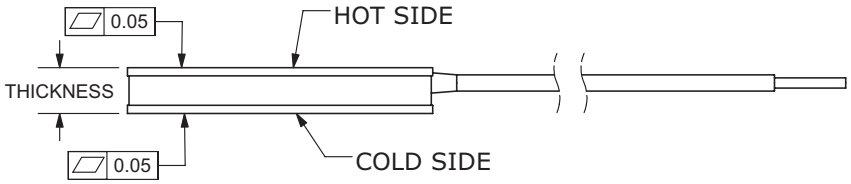
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance[1]	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				
	CP70337, CP70437	235			°C
	all other models	138			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

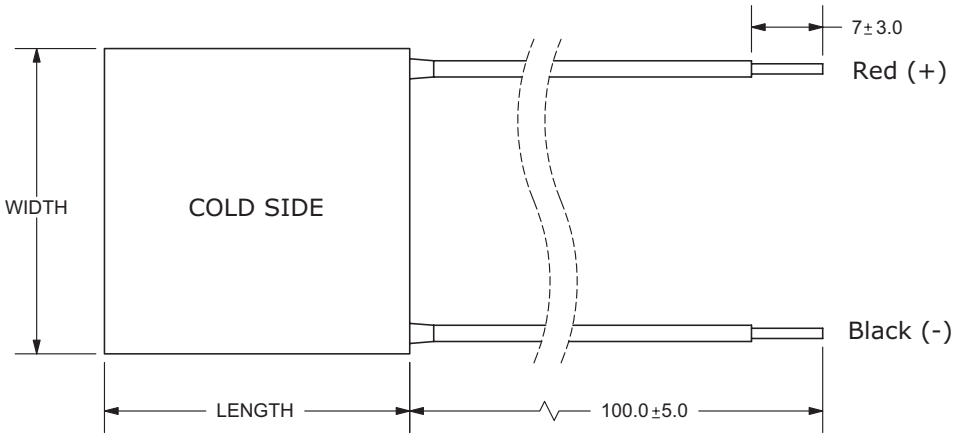
Note: 1. Measured by AC 4-terminal method at 25°C

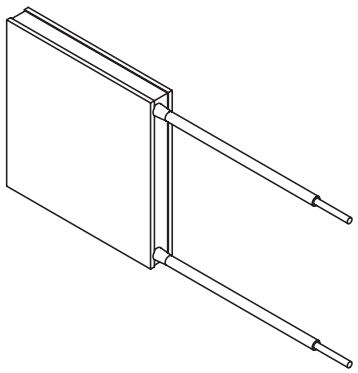
MECHANICAL DRAWING

units: mm



	MATERIAL	PLATING
ceramic plate	96% AL_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	

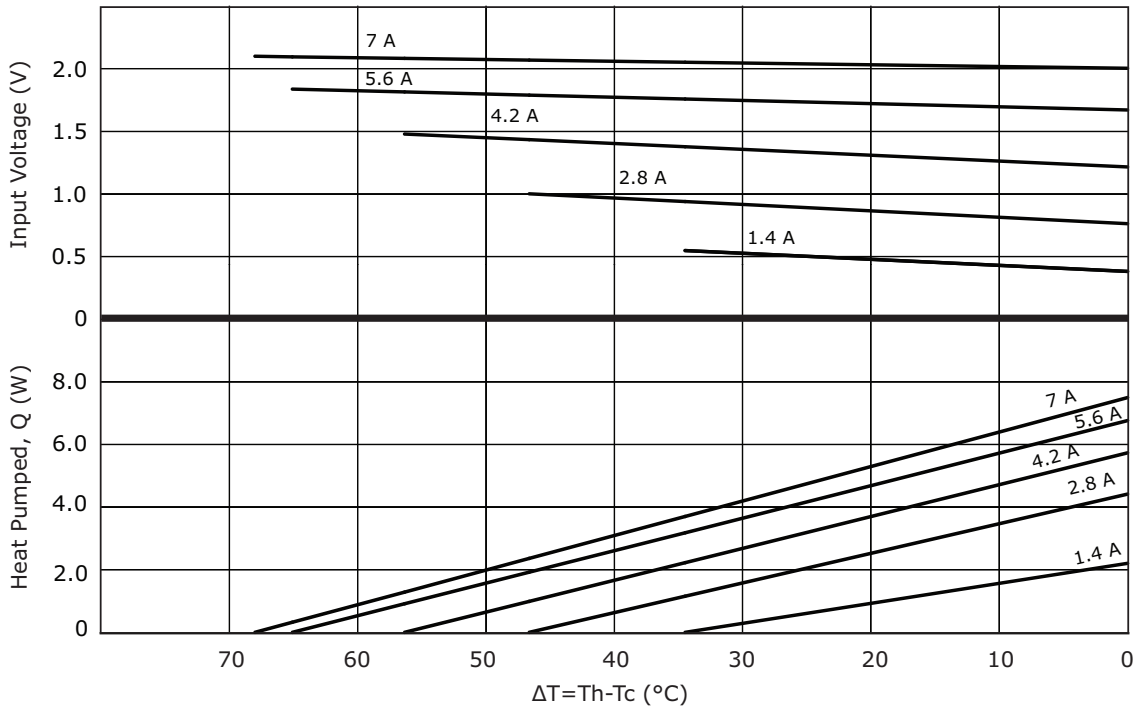




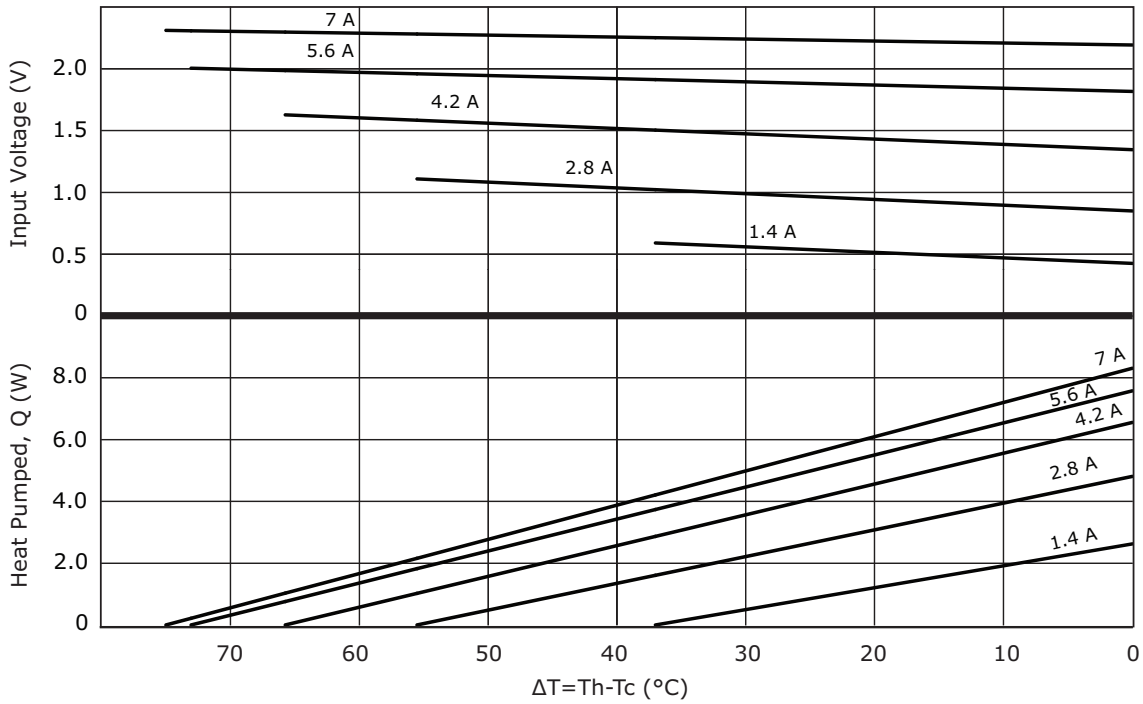
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP70137	15 ±0.3	15 ±0.3	3.8 ±0.1
CP70237	20 ±0.3	20 ±0.3	3.8 ±0.1
CP70301537	30 ±0.3	15 ±0.3	3.8 ±0.1
CP70337[2]	30 ±0.3	30 ±0.3	3.7 ±0.1
CP70437[2]	40 ±0.3	40 ±0.3	3.7 ±0.1

Notes: 2. Wire lead strip length on models CP70337 & CP70437 is 10 ±3.0 mm.

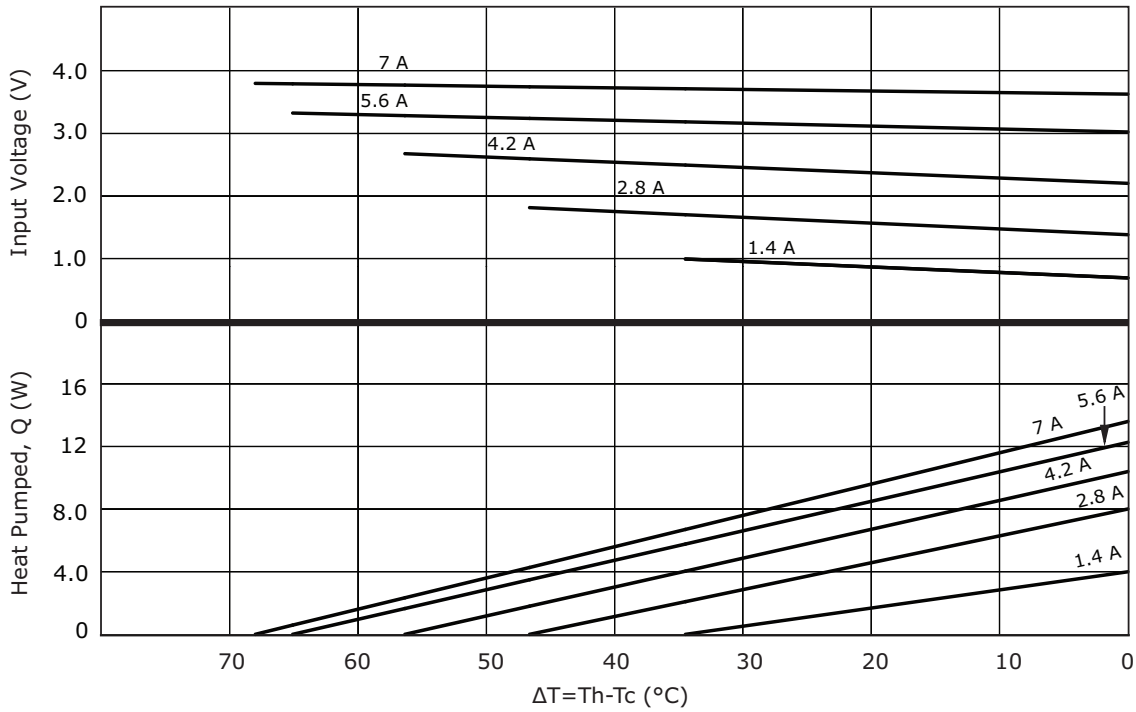
CP70137 PERFORMANCE (Th=27°C)



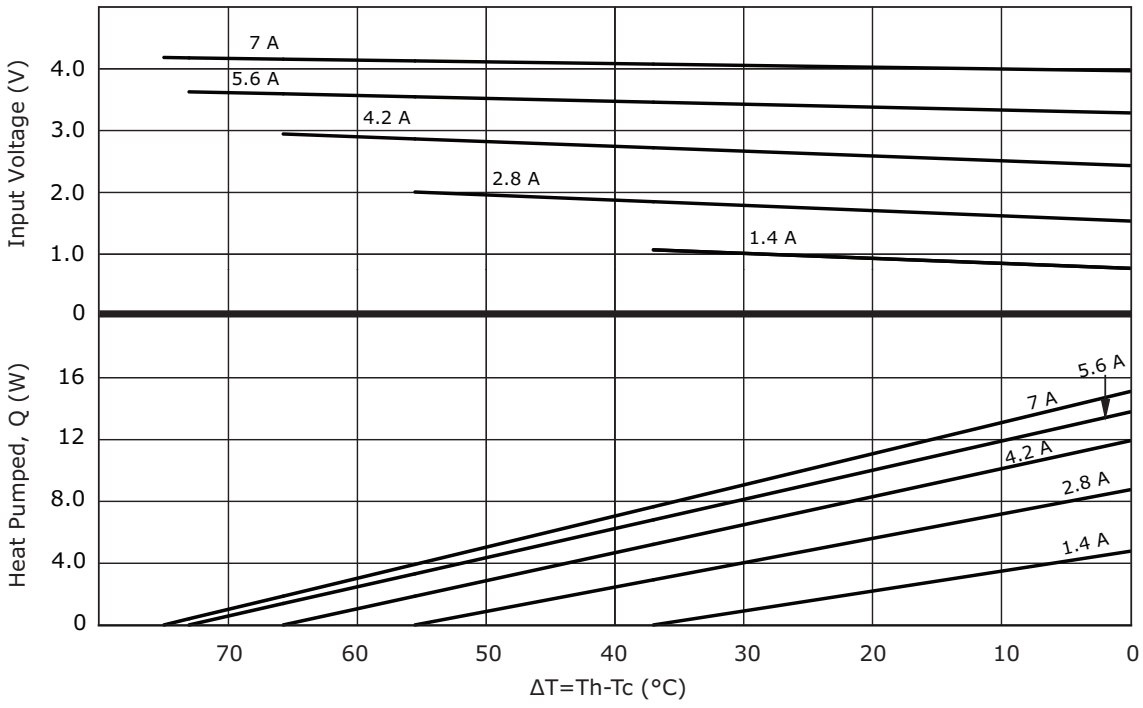
CP70137 PERFORMANCE (Th=50°C)



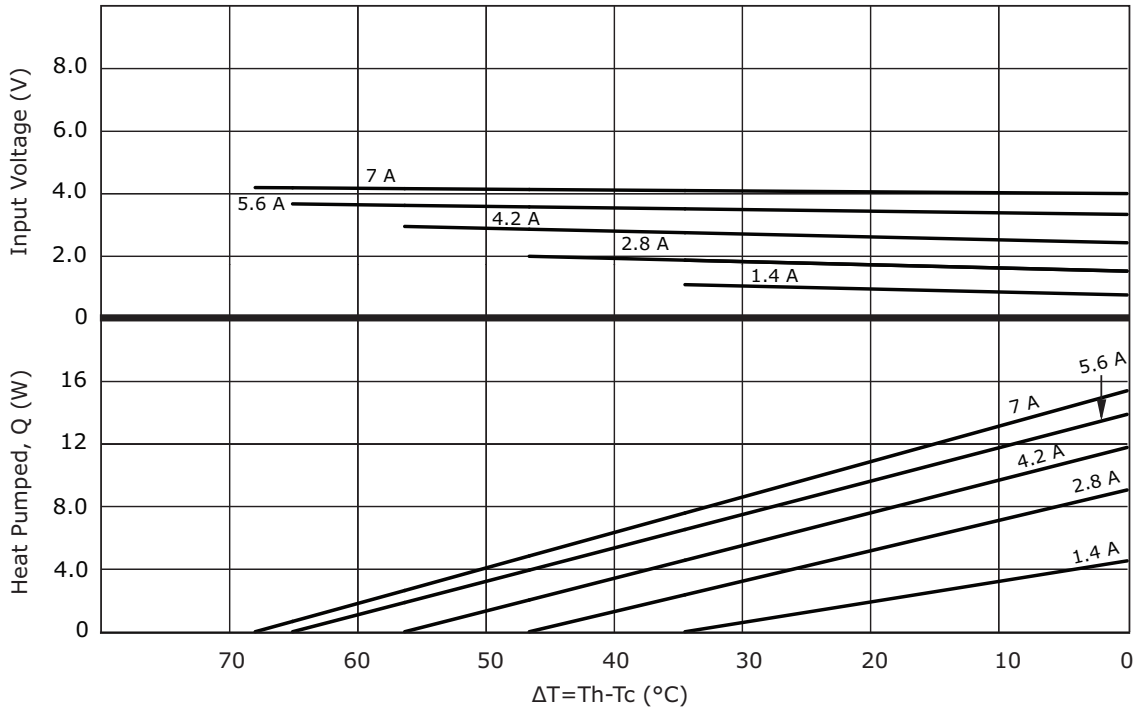
CP70237 PERFORMANCE (Th=27°C)



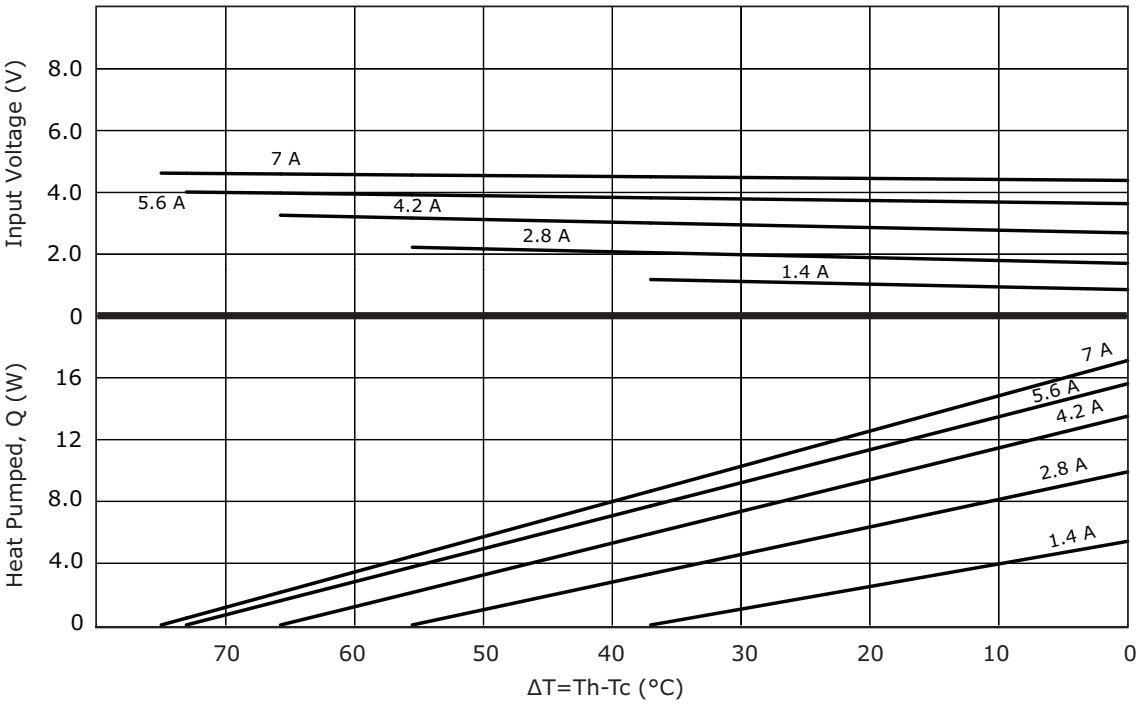
CP70237 PERFORMANCE (Th=50°C)



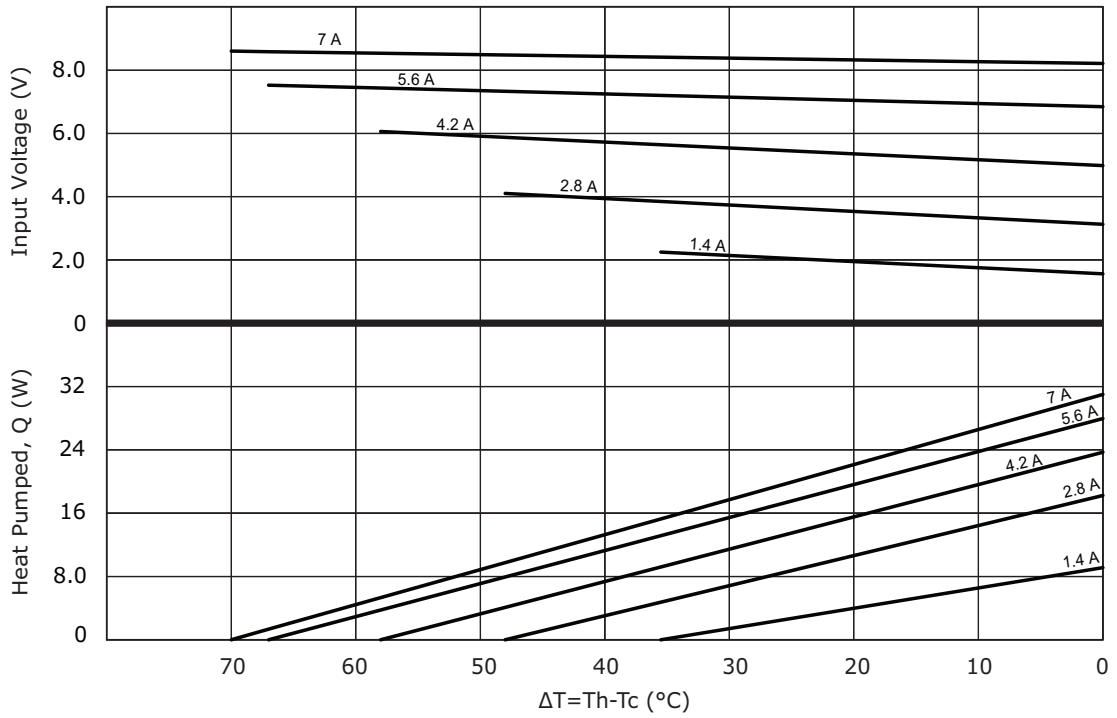
CP70301537 PERFORMANCE (Th=27°C)



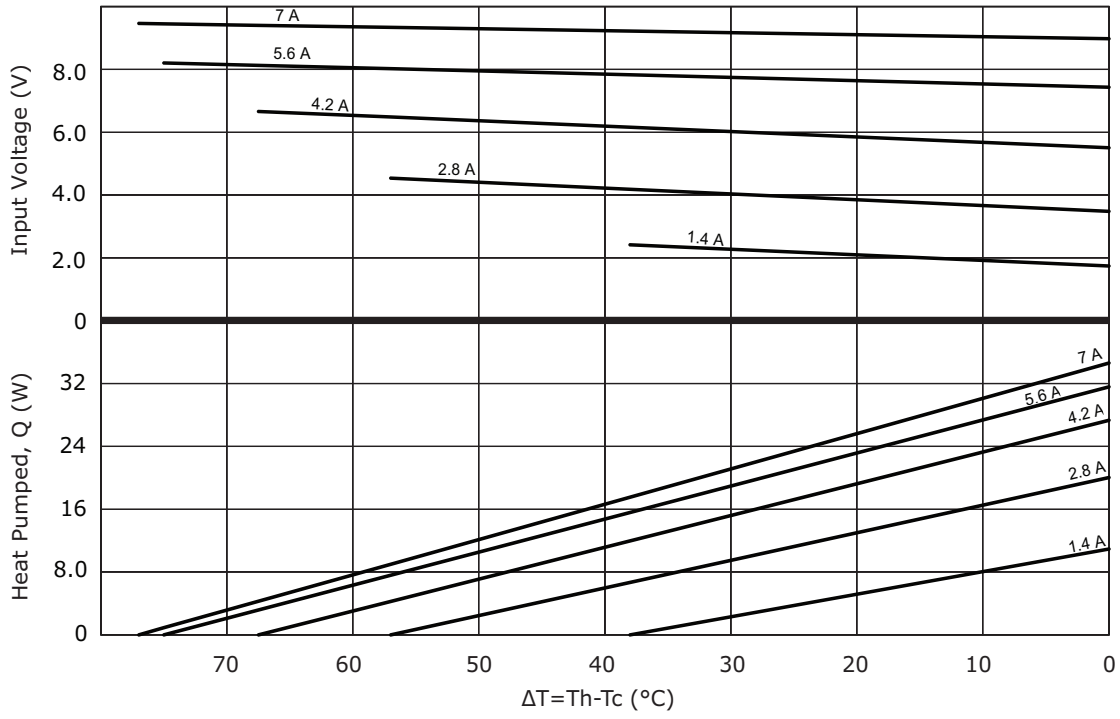
CP70301537 PERFORMANCE (Th=50°C)



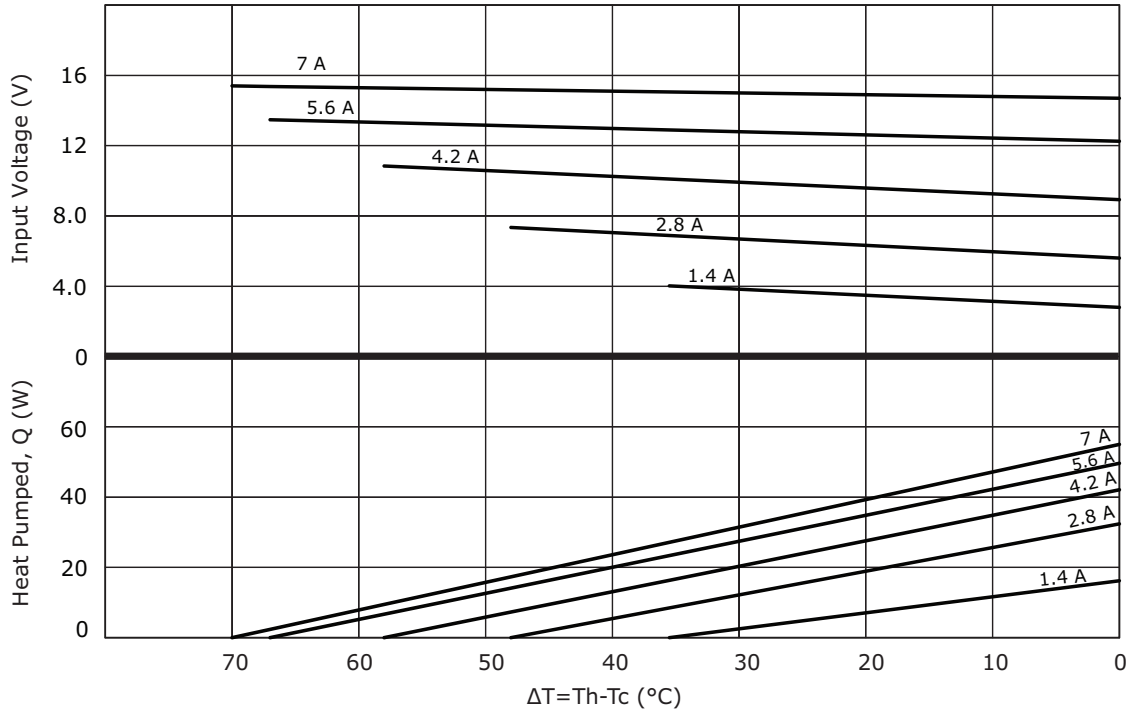
CP70337 PERFORMANCE (Th=27°C)



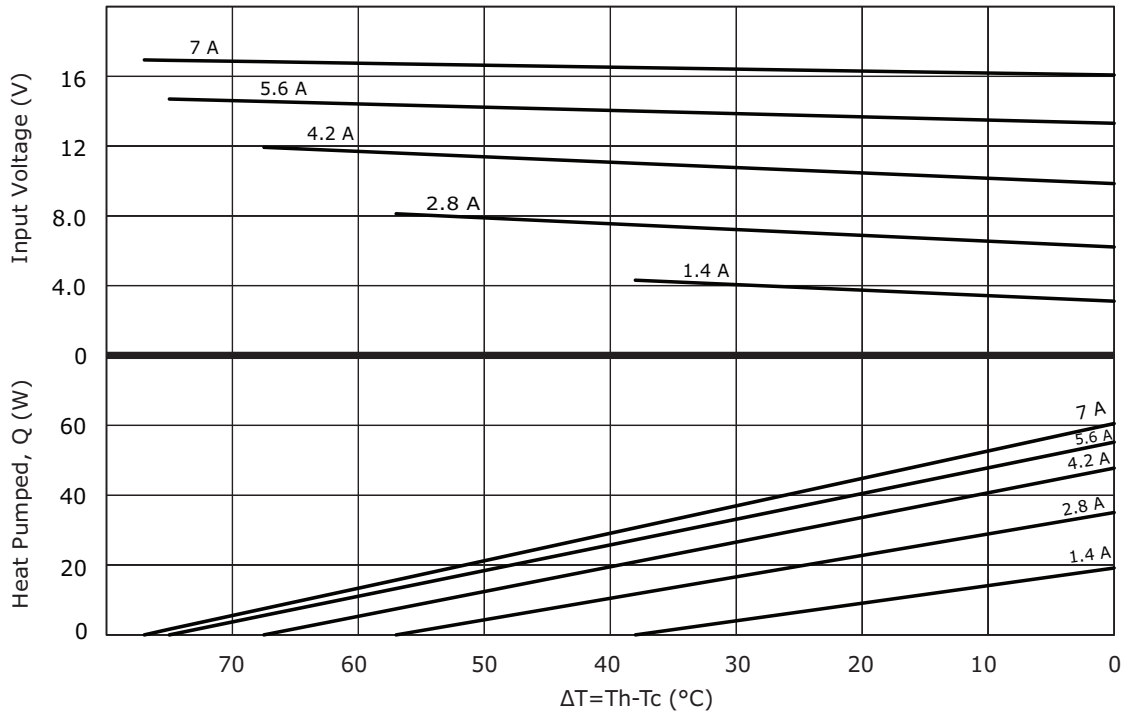
CP70337 PERFORMANCE (Th=50°C)



CP70437 PERFORMANCE (Th=27°C)



CP70437 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	changed models CP70337 & CP70437 to arcTEC™ structure	12/01/2017

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

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