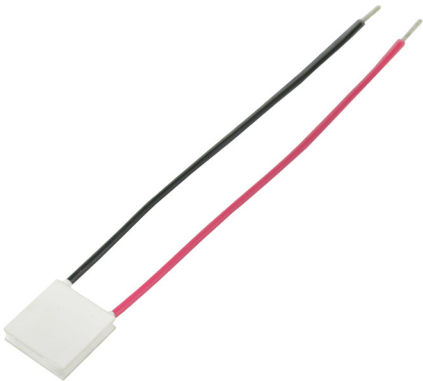




SERIES: CP70 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- solid state device
- precise temperature control
- quiet operation



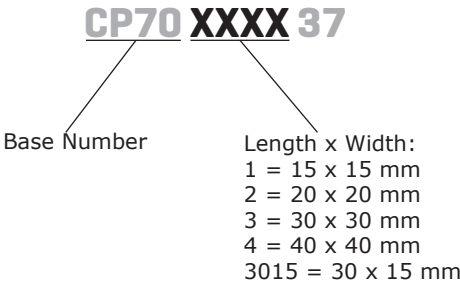
MODEL

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)
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_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



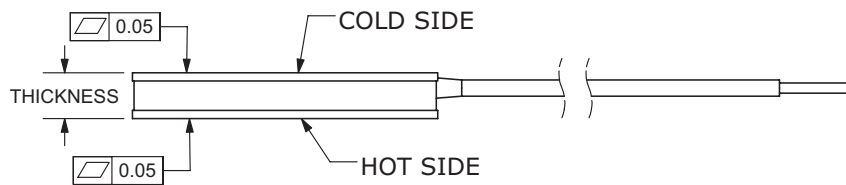
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹	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			$^{\circ}\text{C}$
assembly compression				1	MPa
hot side plate				80	$^{\circ}\text{C}$
RoHS	2011/65/EU				

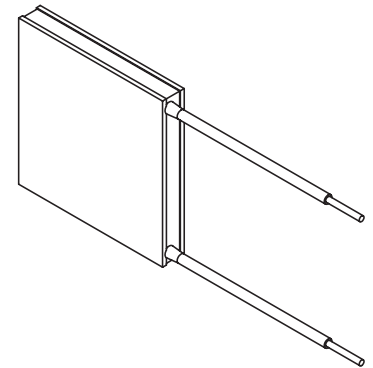
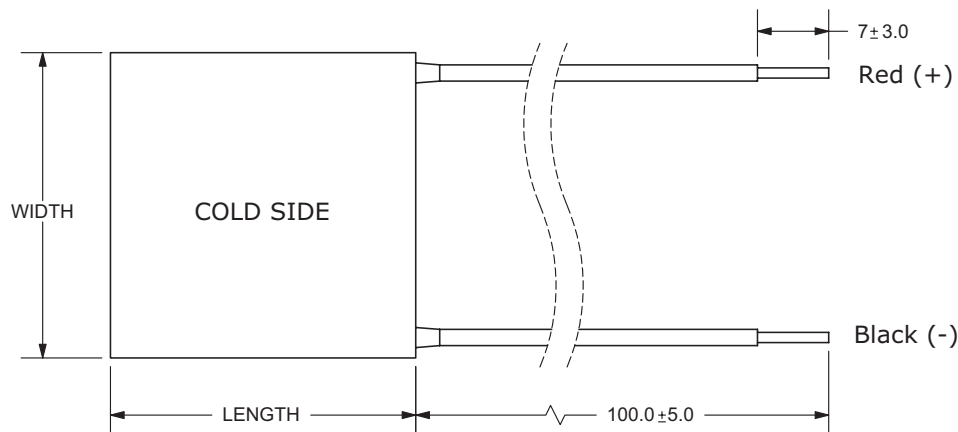
Note: 1. Measured by AC 4-terminal method at 25 $^{\circ}\text{C}$

MECHANICAL DRAWING

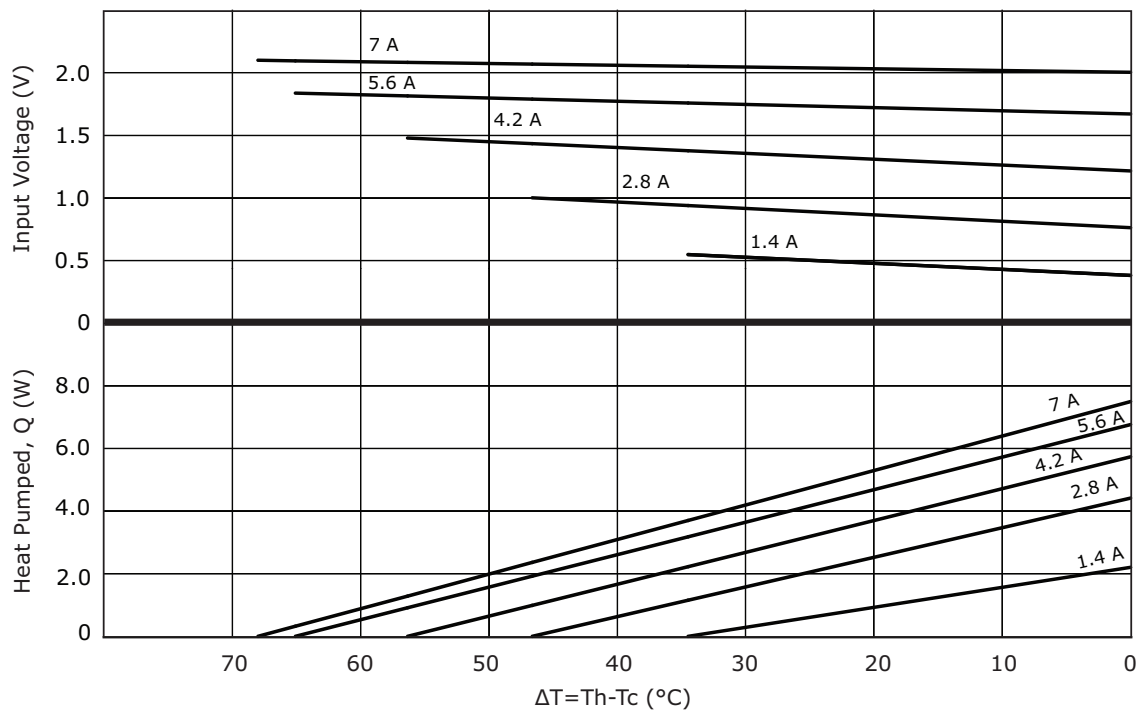
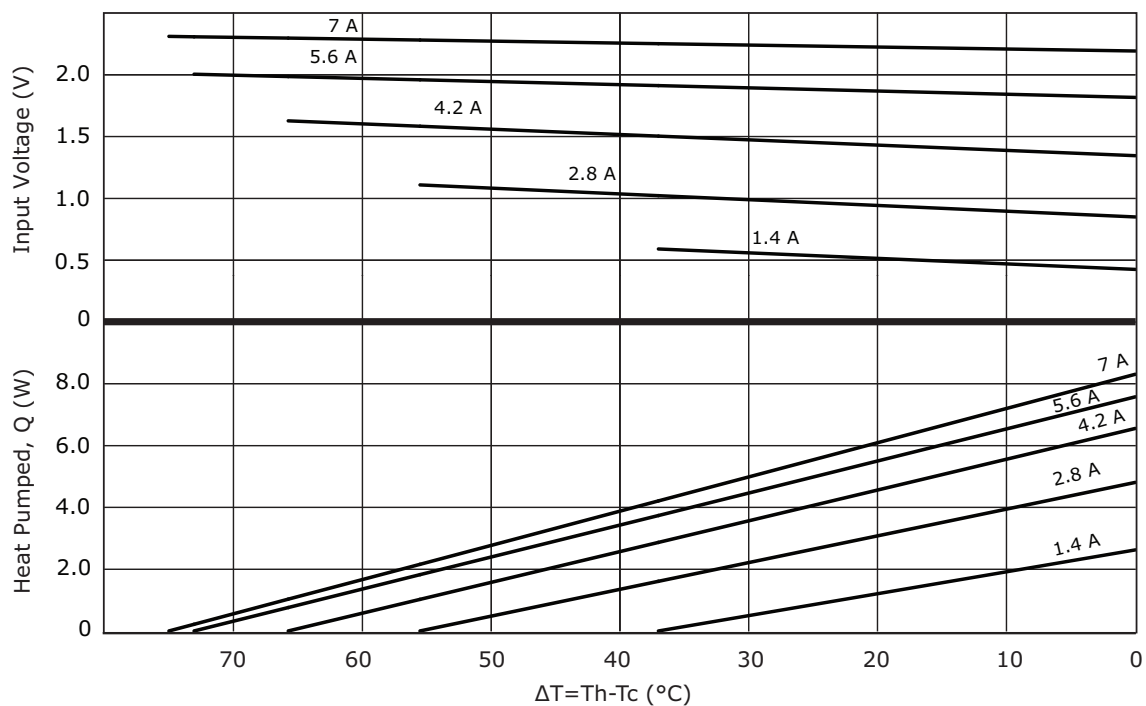
units: mm

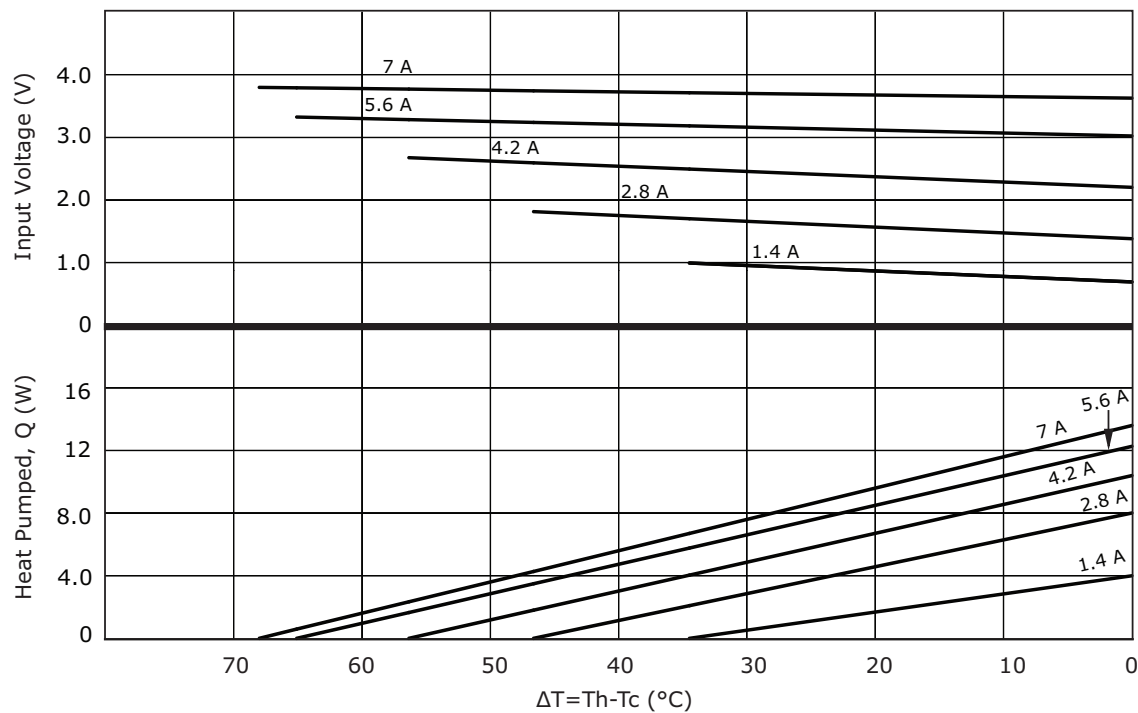
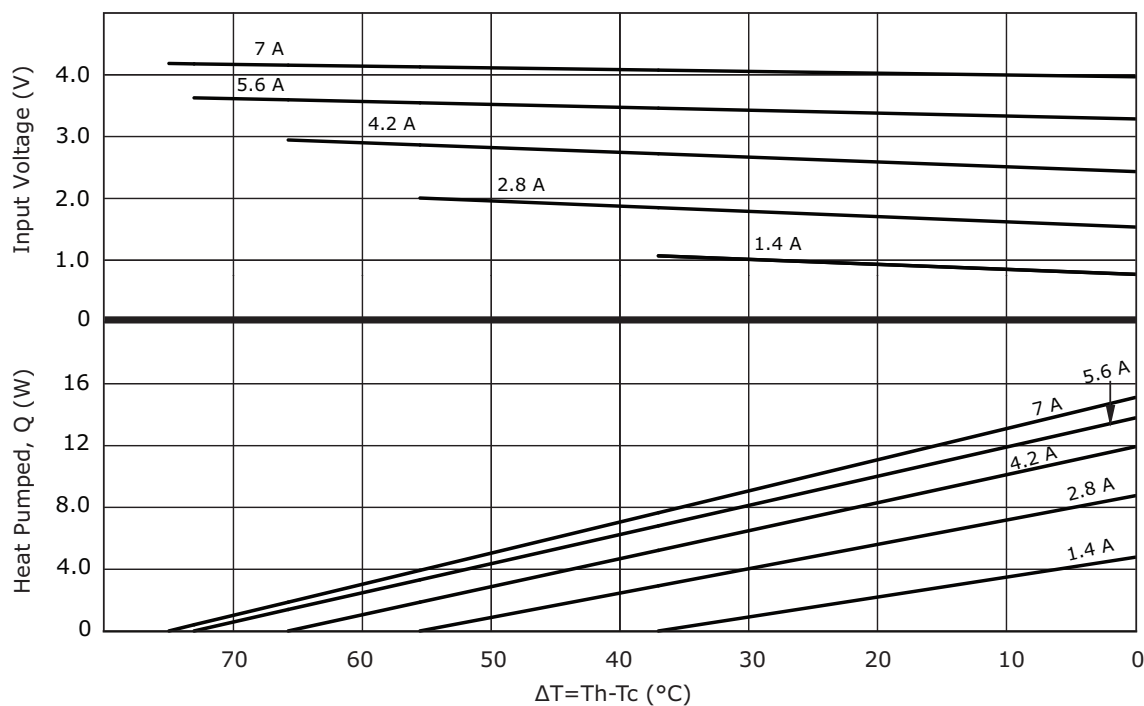


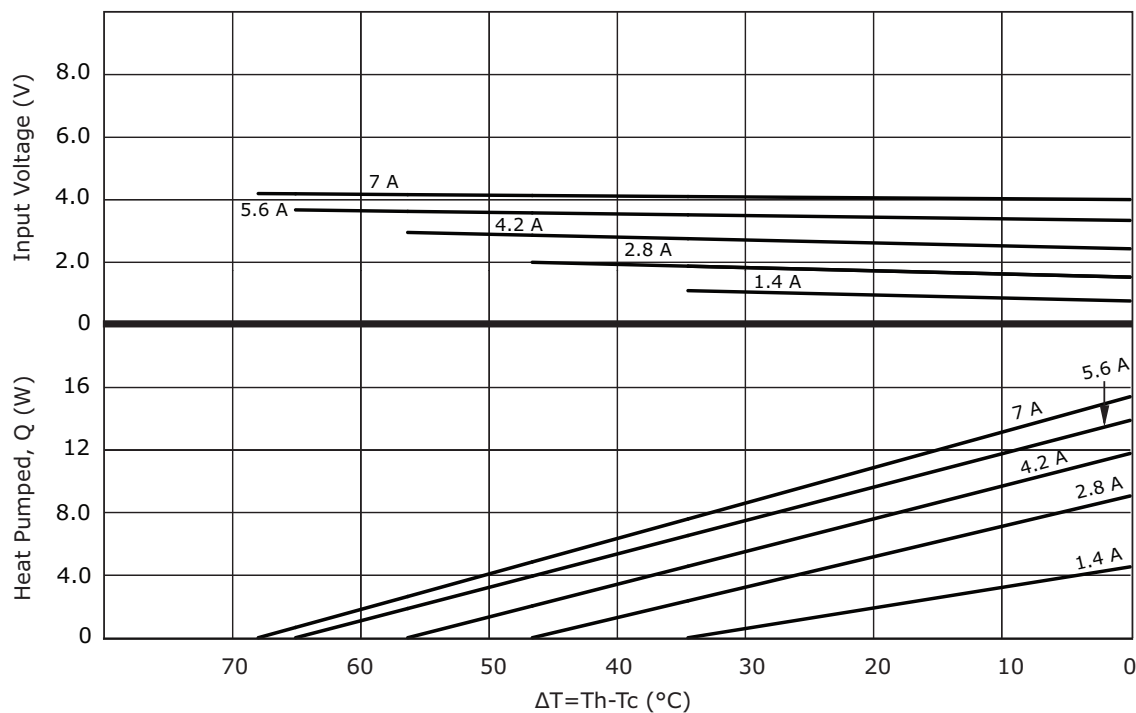
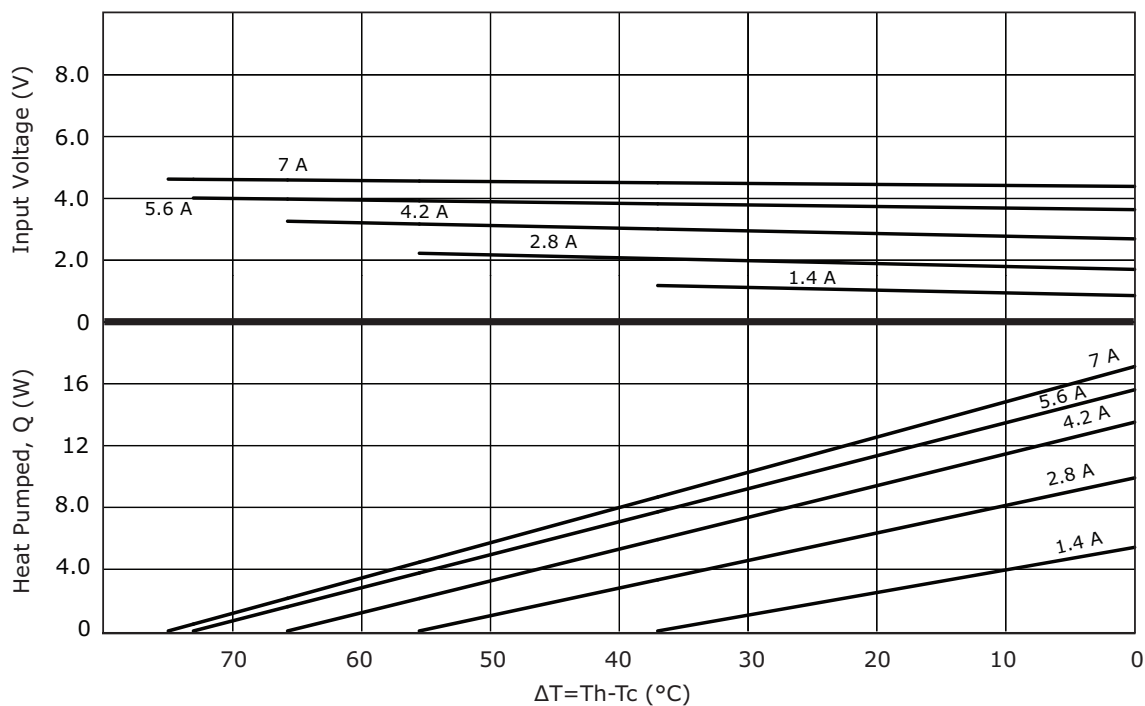
	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	20 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

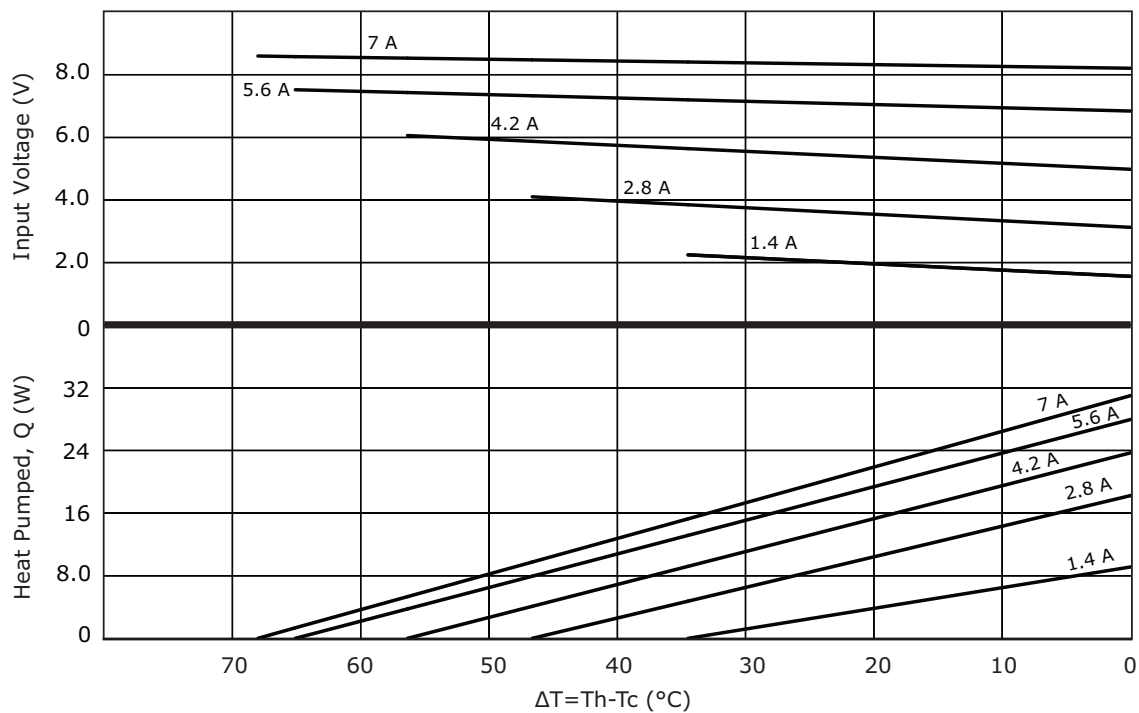
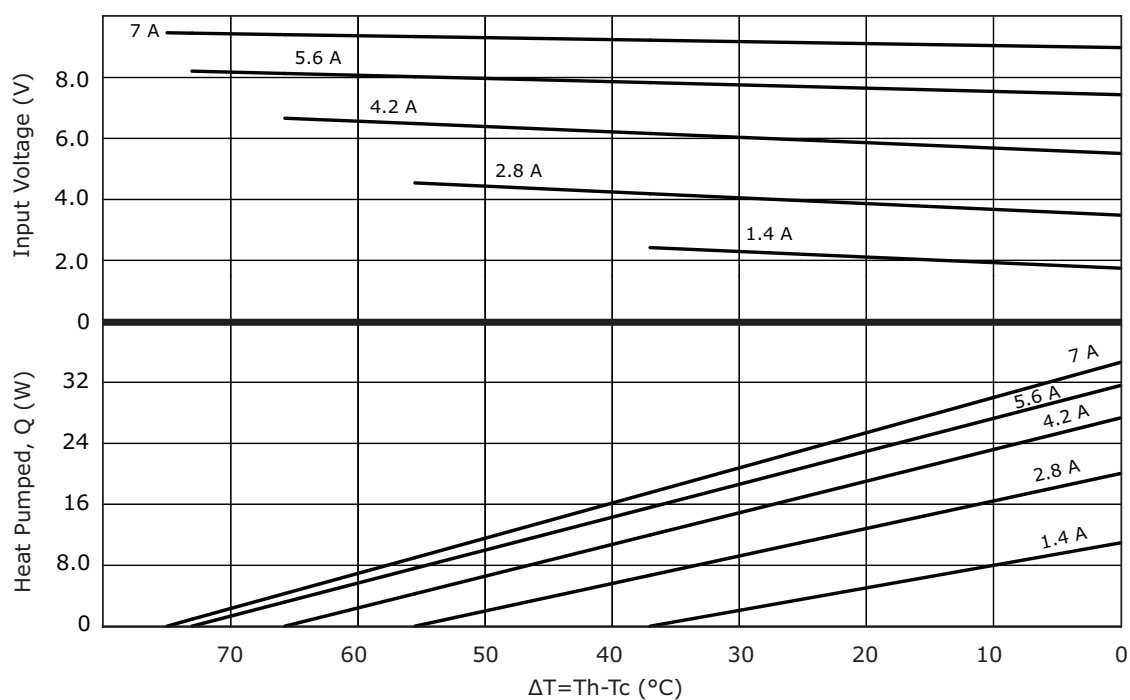


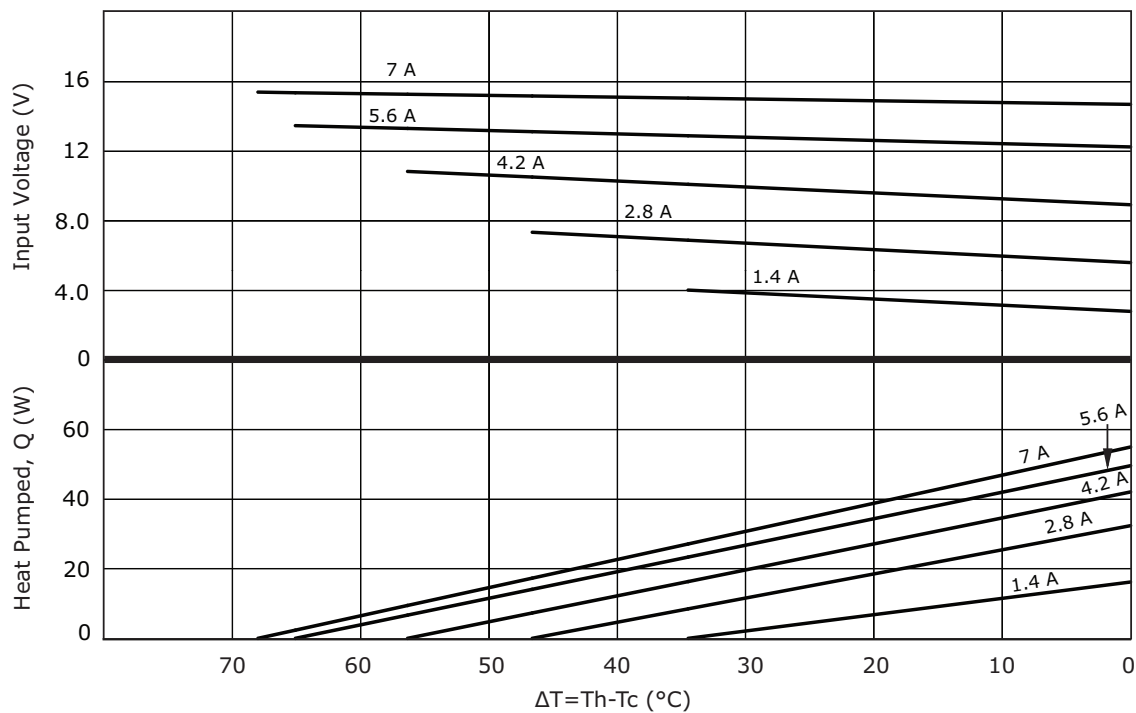
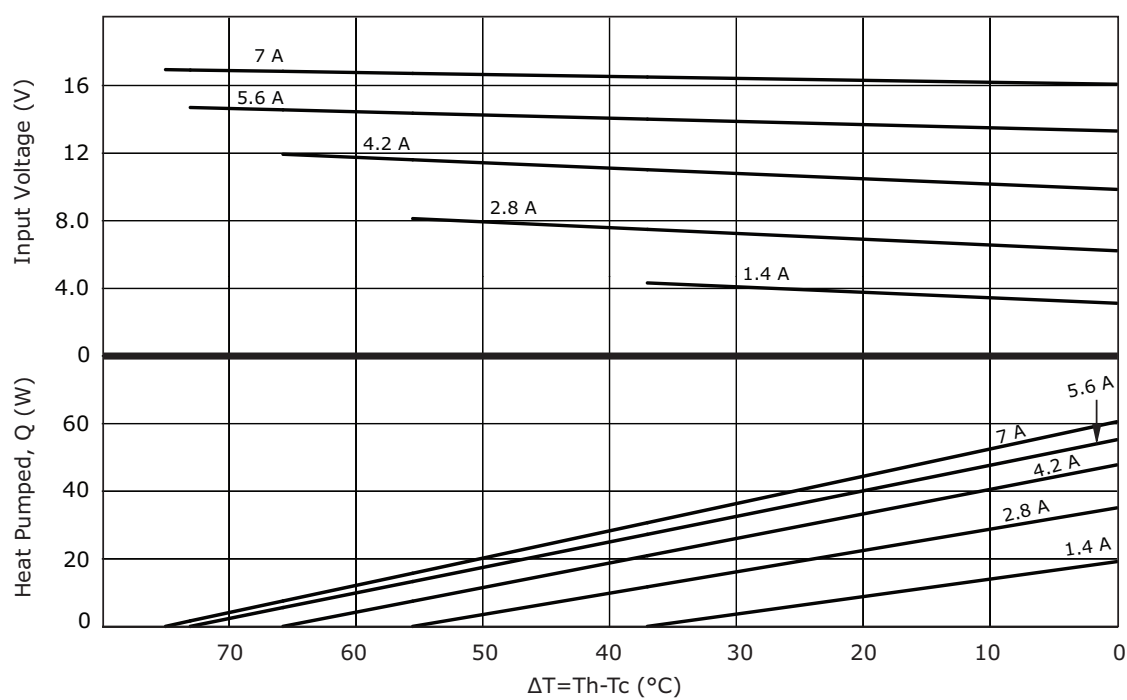
MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP70137	15 $\pm$ 0.3	15 $\pm$ 0.3	3.8 $\pm$ 0.1
CP70237	20 $\pm$ 0.3	20 $\pm$ 0.3	3.8 $\pm$ 0.1
CP70301537	30 $\pm$ 0.3	15 $\pm$ 0.3	3.8 $\pm$ 0.1
CP70337	30 $\pm$ 0.3	30 $\pm$ 0.3	3.8 $\pm$ 0.1
CP70437	40 $\pm$ 0.3	40 $\pm$ 0.3	3.8 $\pm$ 0.1

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

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.



CUI INC[®]

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.