

CUI DEVICES

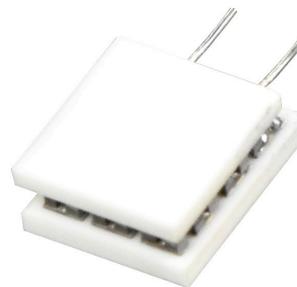
date 07/08/2020

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SERIES: CP10-M | DESCRIPTION: PELTIER MODULE

FEATURES

- micro size (less than 10 x 10 mm)
- wide ΔT max
- Qmax up to 1.4 W
- Au plating available, suitable for soldering
- precise temperature control
- solid state construction



MODEL

MODEL	input voltage ¹	input current ²	internal resistance ³	output Qmax ⁴		output ΔT max ⁵	
	max (Vdc)	max (A)	typ ($\Omega \pm 10\%$)	$T_h = 27^\circ C$ (W)	$T_h = 50^\circ C$ (W)	$T_h = 27^\circ C$ ($^\circ C$)	$T_h = 50^\circ C$ ($^\circ C$)
CP1062-268	1.4	1.0	1.04	0.9	1.0	70	77
CP1062-268P ⁶	1.4	1.0	1.04	0.9	1.0	70	77
CP106283-268	2.1	1.0	1.57	1.3	1.4	70	77
CP106283-29P ⁶	2.1	1.0	1.57	1.3	1.4	70	77
CP10726-268	2.1	1.0	1.57	1.3	1.4	70	77
CP10726-29P ⁶	2.1	1.0	1.57	1.3	1.4	70	77

Notes:

1. Maximum voltage at ΔT max and $T_h = 27^\circ C$
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at $25^\circ C$
4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T = 0^\circ C$
5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q = 0W$ (ΔT max measured in a vacuum at 1.3 Pa)
6. Gold plating on both sides.

SOLDERABILITY⁷

parameter	conditions/description	min	typ	max	units
soldering to plates	soldering iron temperature			150	$^\circ C$

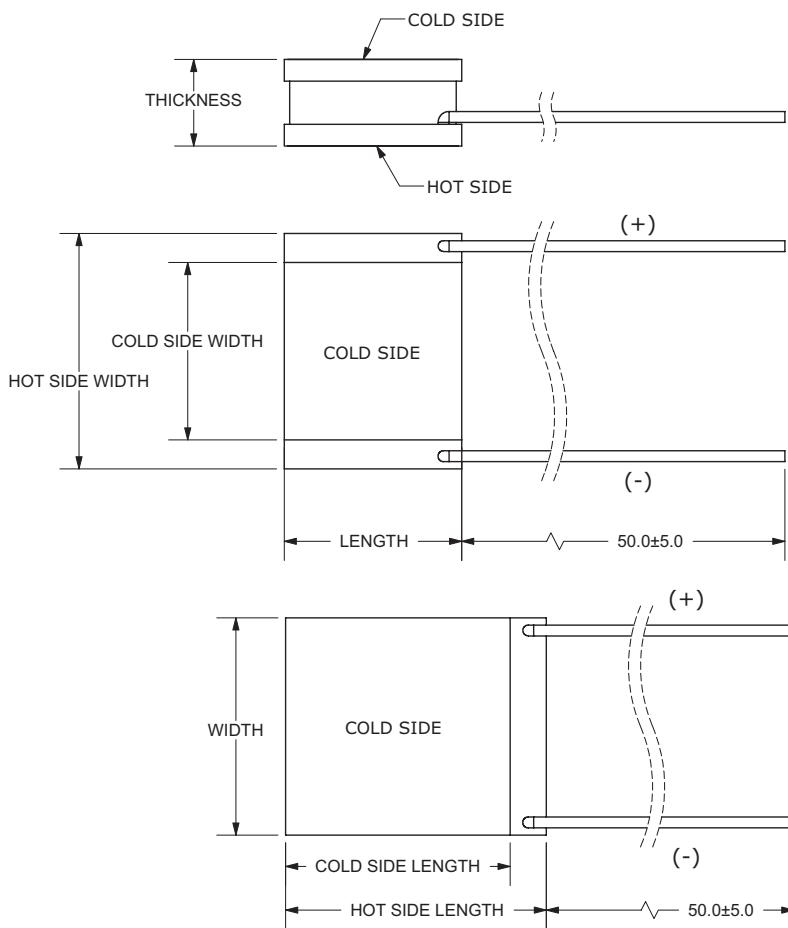
Note: 7. Only for gold plated models. The solder that holds the peltier together melts at $235^\circ C$. Caution must be taken to not leave the soldering iron in contact with the surface too long, or damage to the peltier could occur.

SPECIFICATIONS

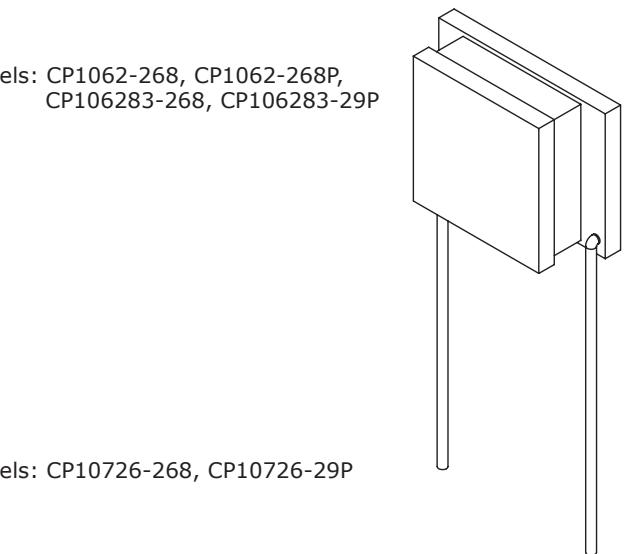
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

MECHANICAL DRAWING

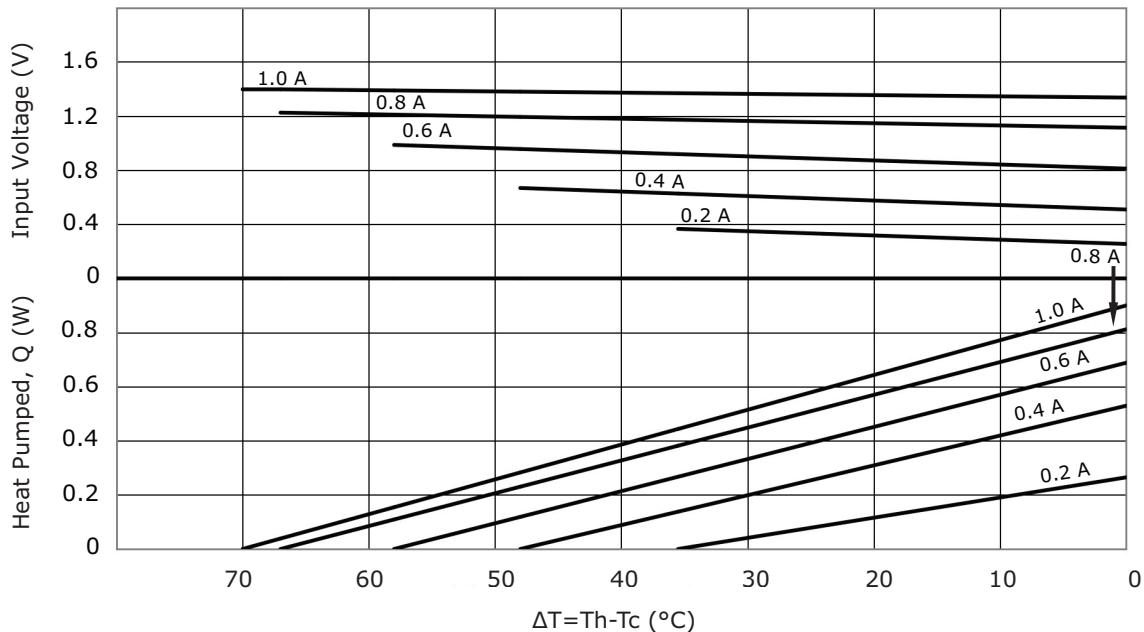
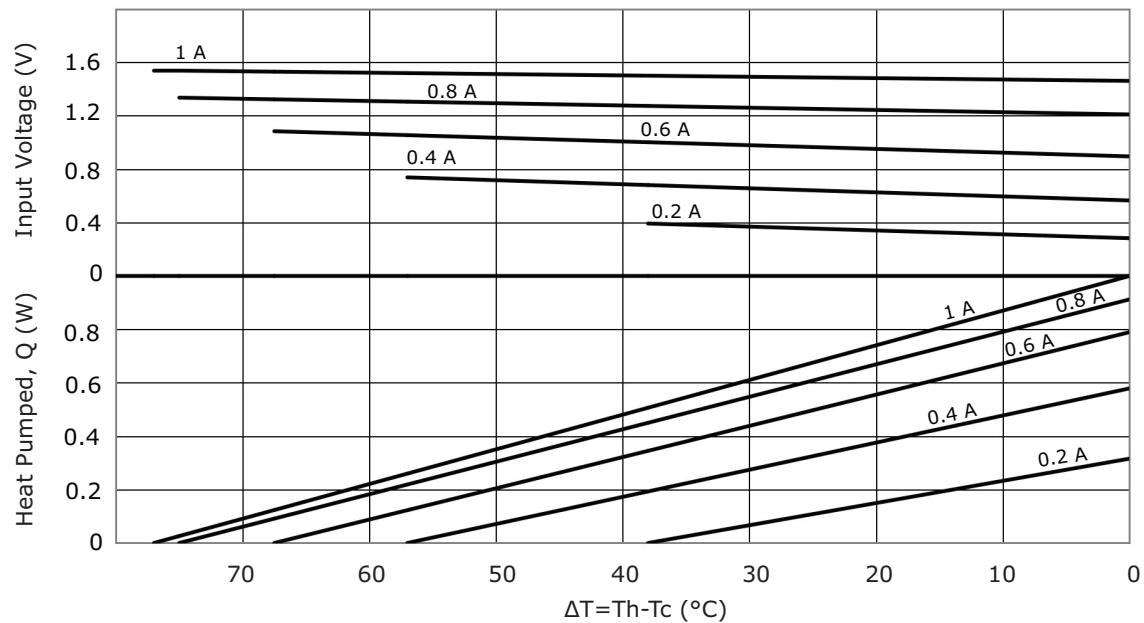
units: mm

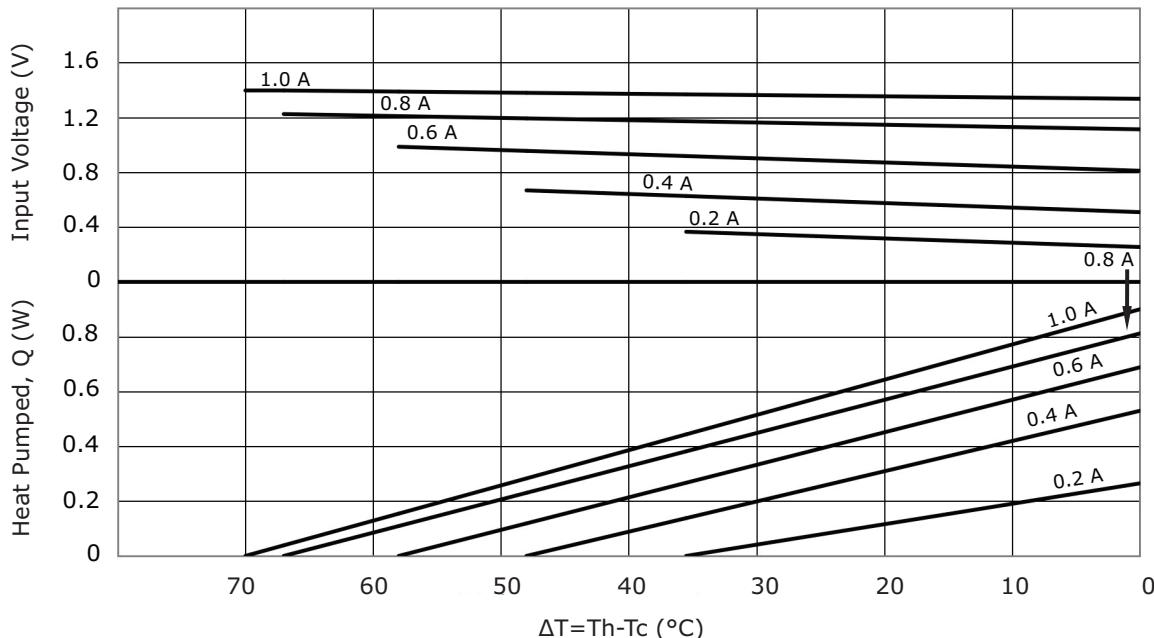
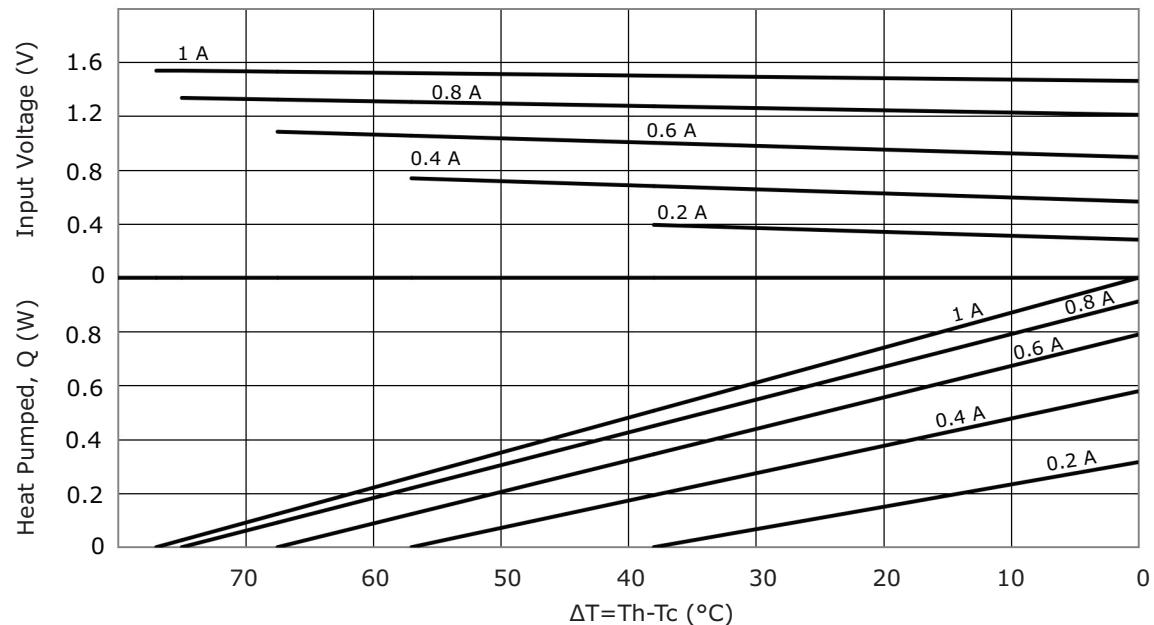
Models: CP1062-268, CP1062-268P,
CP106283-268, CP106283-29P

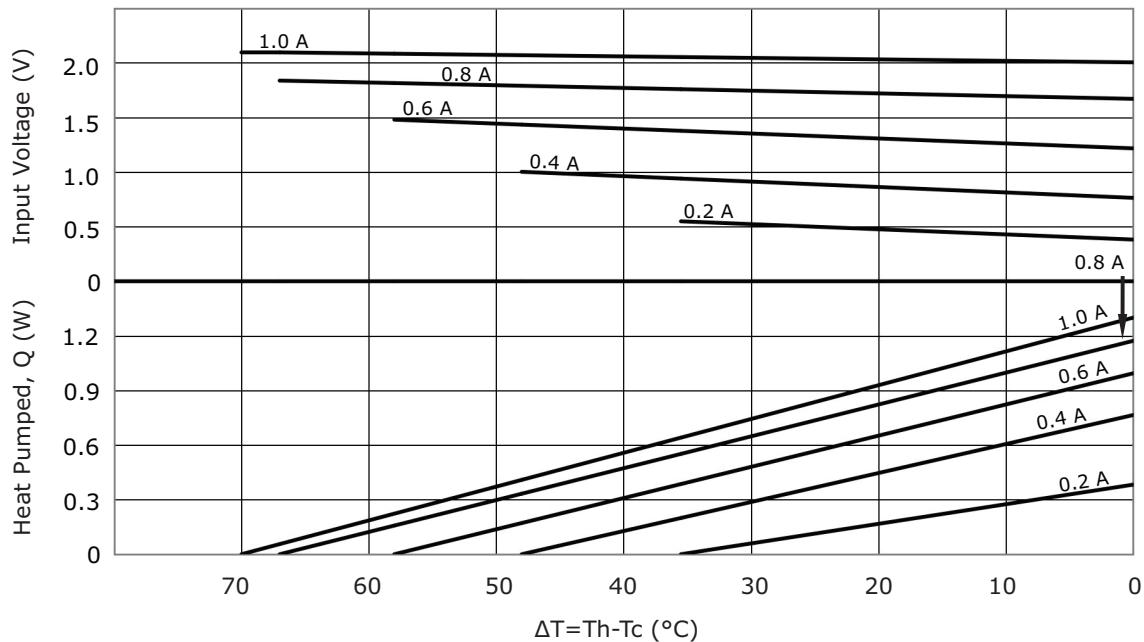
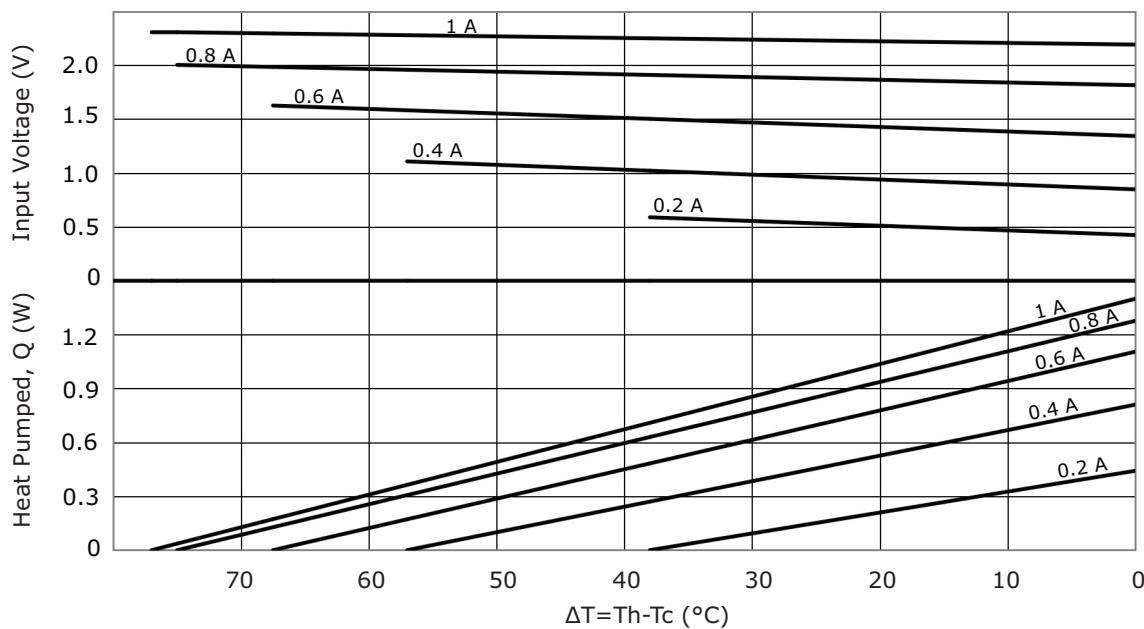
Models: CP10726-268, CP10726-29P

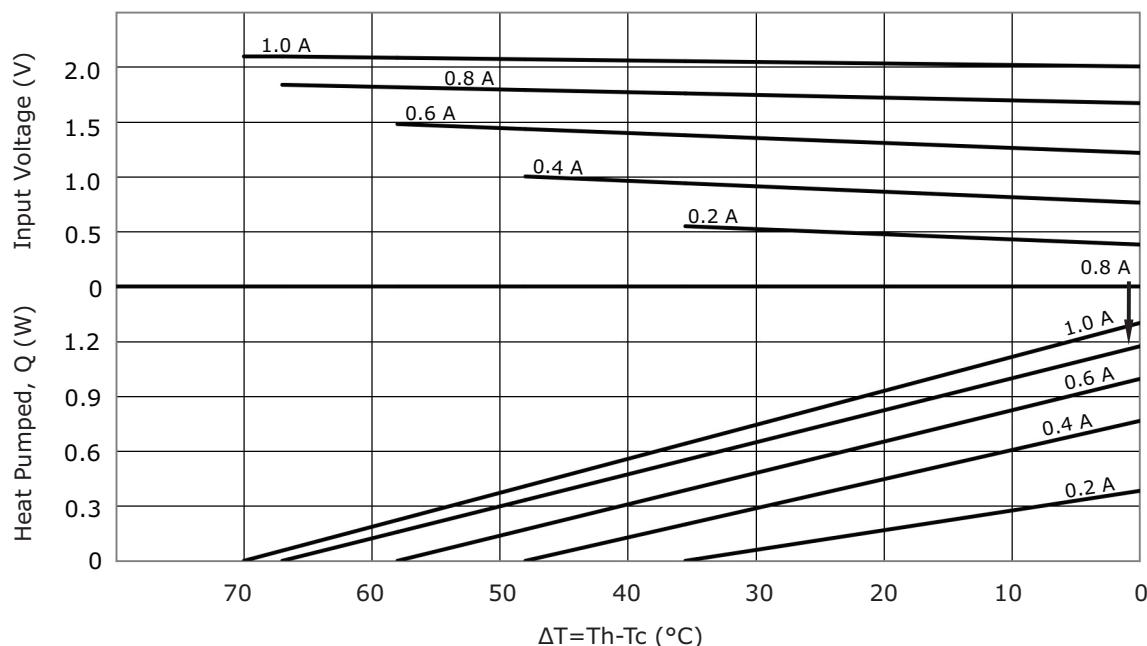
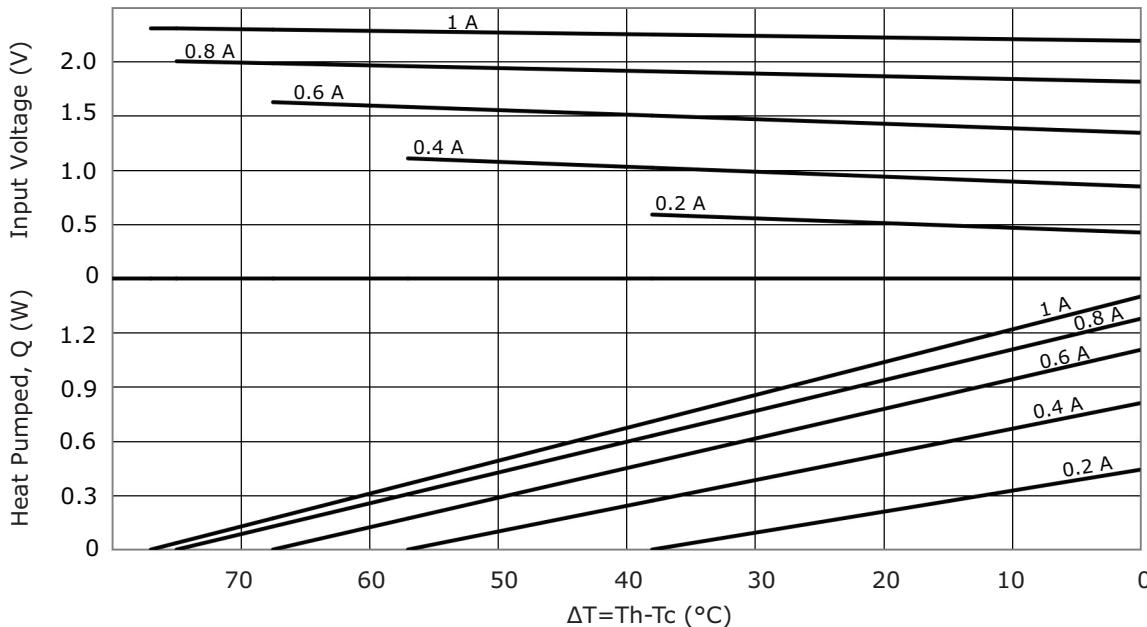


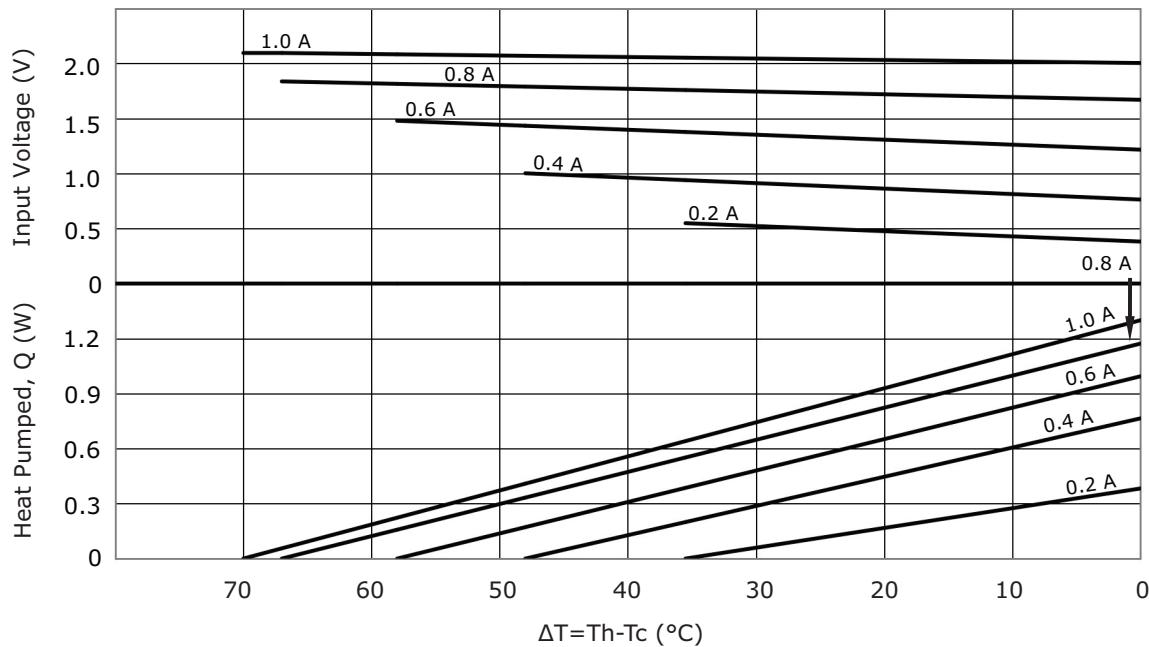
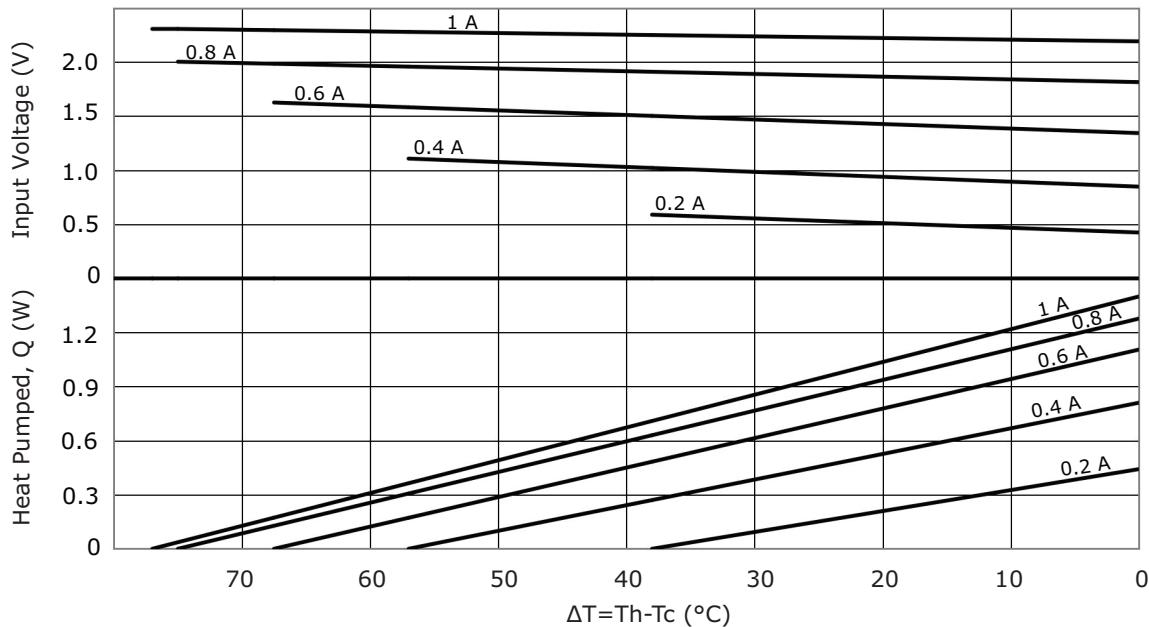
MODEL NO.	HOT SIDE LENGTH (mm)	COLD SIDE LENGTH (mm)	HOT SIDE WIDTH (mm)	COLD SIDE WIDTH (mm)	THICKNESS (mm)	GOLD PLATING HOT/COLD SIDES
CP1062-268	6.2 ±0.3	6.2 ±0.3	6.2 ±0.3	4.2 ±0.3	2.68 ±0.15	NO
CP1062-268P	6.2 ±0.3	6.2 ±0.3	6.2 ±0.3	4.2 ±0.3	2.90 ±0.15	YES
CP106283-268	6.2 ±0.3	6.2 ±0.3	8.3 ±0.3	6.2 ±0.3	2.68 ±0.15	NO
CP106283-29P	6.2 ±0.3	6.2 ±0.3	8.3 ±0.3	6.2 ±0.3	2.90 ±0.15	YES
CP10726-268	7.2 ±0.3	6.2 ±0.3	6.0 ±0.3	6.0 ±0.3	2.68 ±0.15	NO
CP10726-29P	7.2 ±0.3	6.2 ±0.3	6.0 ±0.3	6.0 ±0.3	2.90 ±0.15	YES

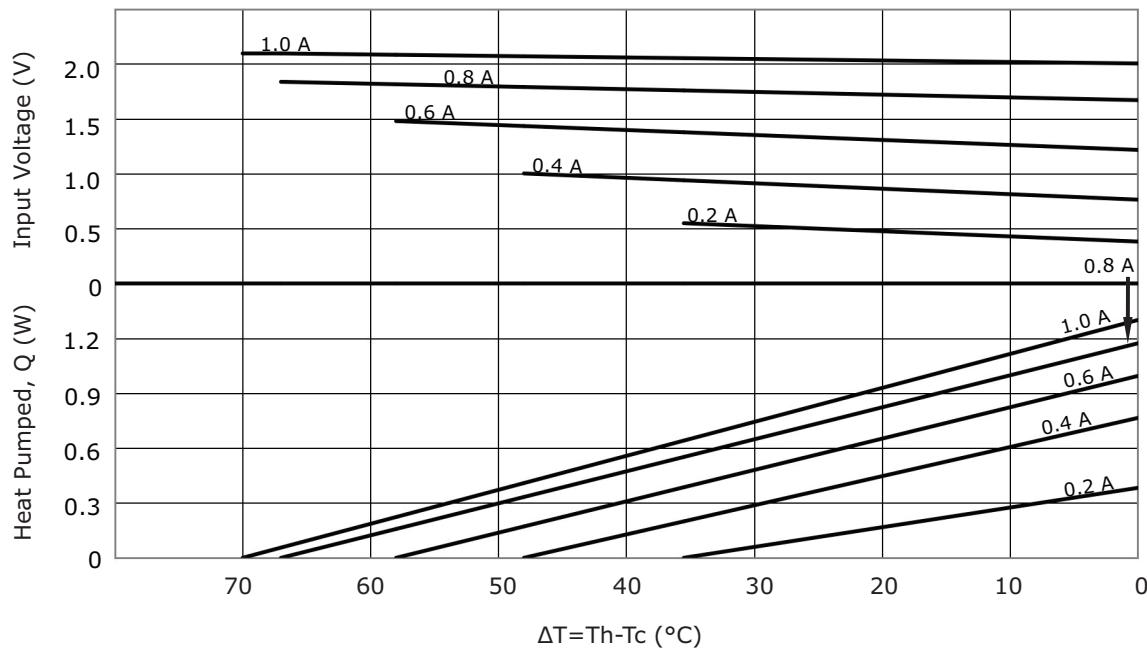
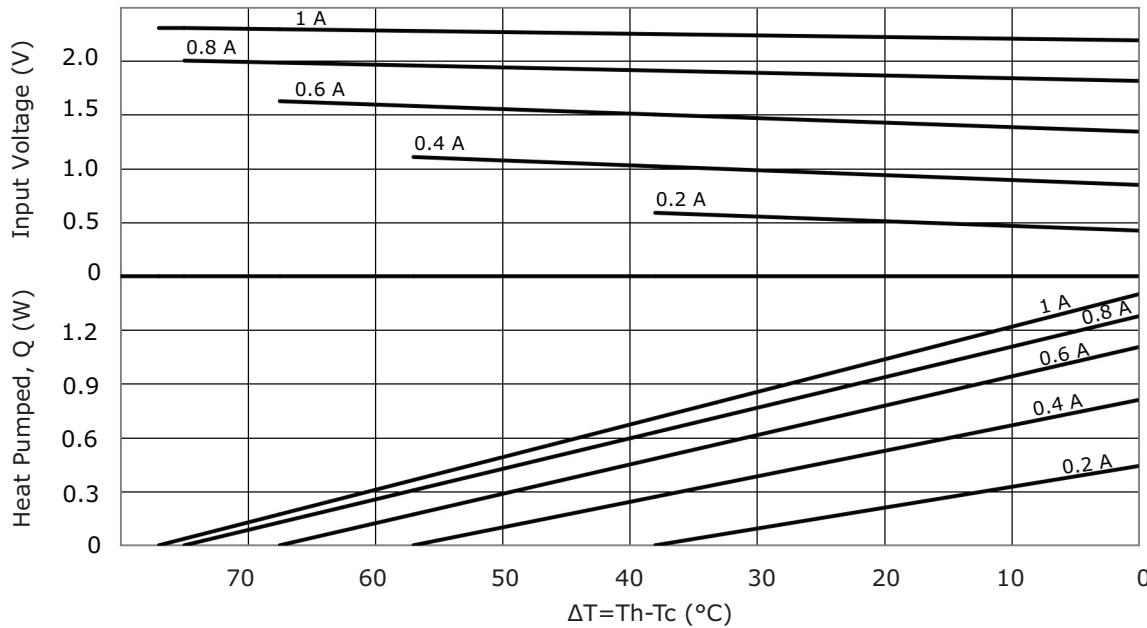
CP1062-268 PERFORMANCE ($Th=27^{\circ}C$)**CP1062-268 PERFORMANCE ($Th=50^{\circ}C$)**

CP1062-268P PERFORMANCE (Th=27°C)**CP1062-268P PERFORMANCE (Th=50°C)**

CP106283-268 PERFORMANCE (Th=27°C)**CP106283-268 PERFORMANCE (Th=50°C)**

CP106283-29P PERFORMANCE (Th=27°C)**CP106283-29P PERFORMANCE (Th=50°C)**

CP10726-268 PERFORMANCE (Th=27°C)**CP10726-268 PERFORMANCE (Th=50°C)**

CP10726-29P PERFORMANCE (Th=27°C)**CP10726-29P PERFORMANCE (Th=50°C)**

REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020

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

CUI DEVICES

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

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CUI Devices:

[CP1062-268](#) [CP1062-268P](#) [CP106283-268](#) [CP106283-29P](#) [CP10726-268](#) [CP10726-29P](#)