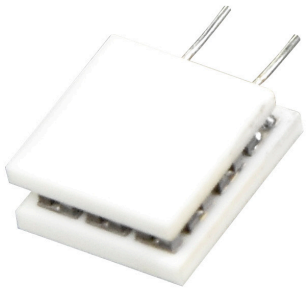
CUDEVICES

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



RoHS

MODEL

	input voltage[1] max (Vdc)	input current[2] max (A)	internal resistance[3] typ (Ω±10%)	output Qmax[4] T_h=27°C (W)	output Qmax[4] T_h=50°C (W)	output ΔTmax[5] T_h=27°C (°C)	output ΔTmax[5] T_h=50°C (°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°C
2. Maximum current to achieve ΔT max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°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.

SOLDERABILITY[7]

parameter	conditions/description	min	typ	max	units
soldering to plates	soldering iron temperature			150	°C

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

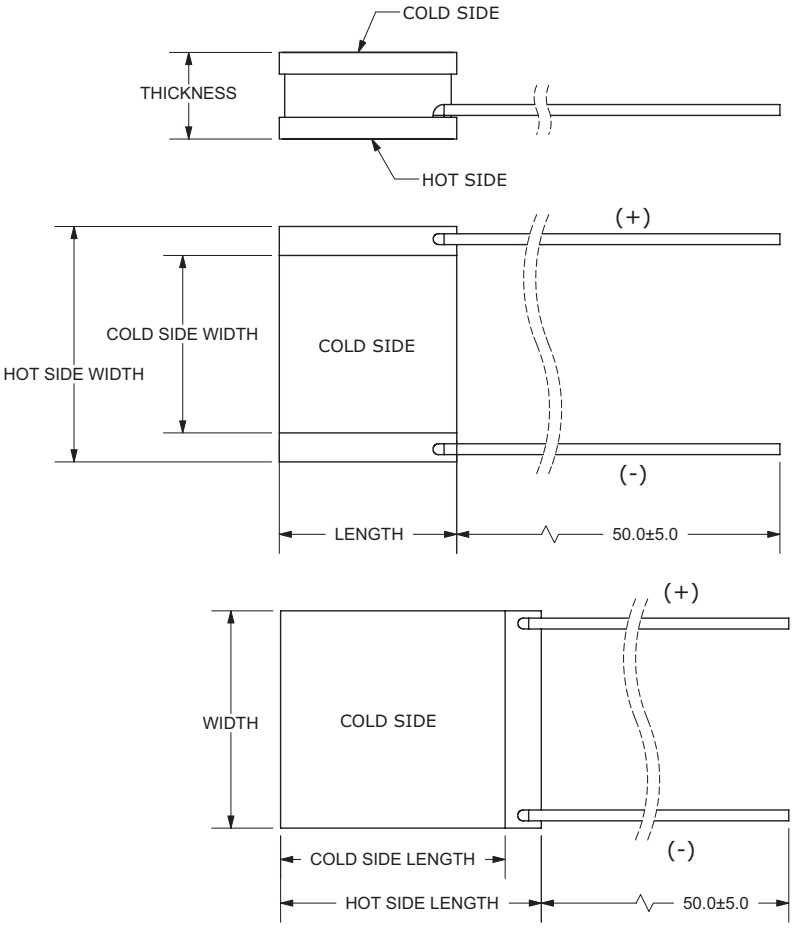
SPECIFICATIONS

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

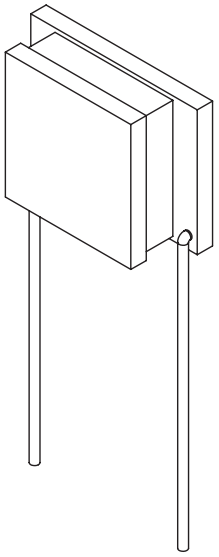
MECHANICAL DRAWING

units: mm

	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
wire leads	Ø0.25-0.3 mm annealed copper	tin
sealer	no sealing	
ceramic surface	Au plating on select models	



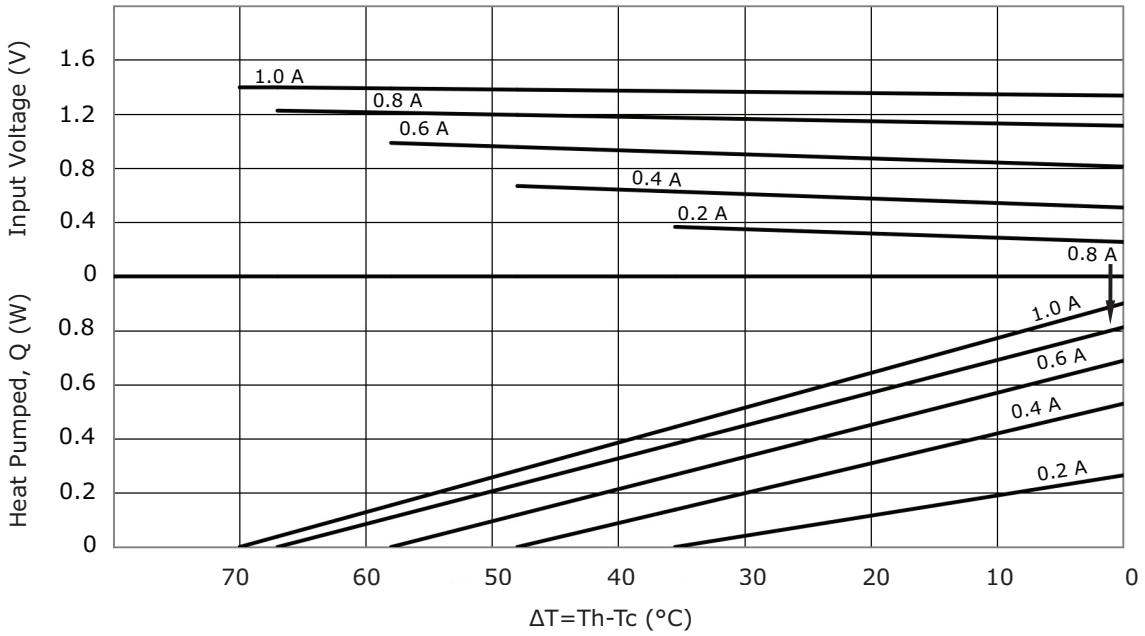
Models: CP1062-268, CP1062-268P, CP106283-268, CP106283-29P



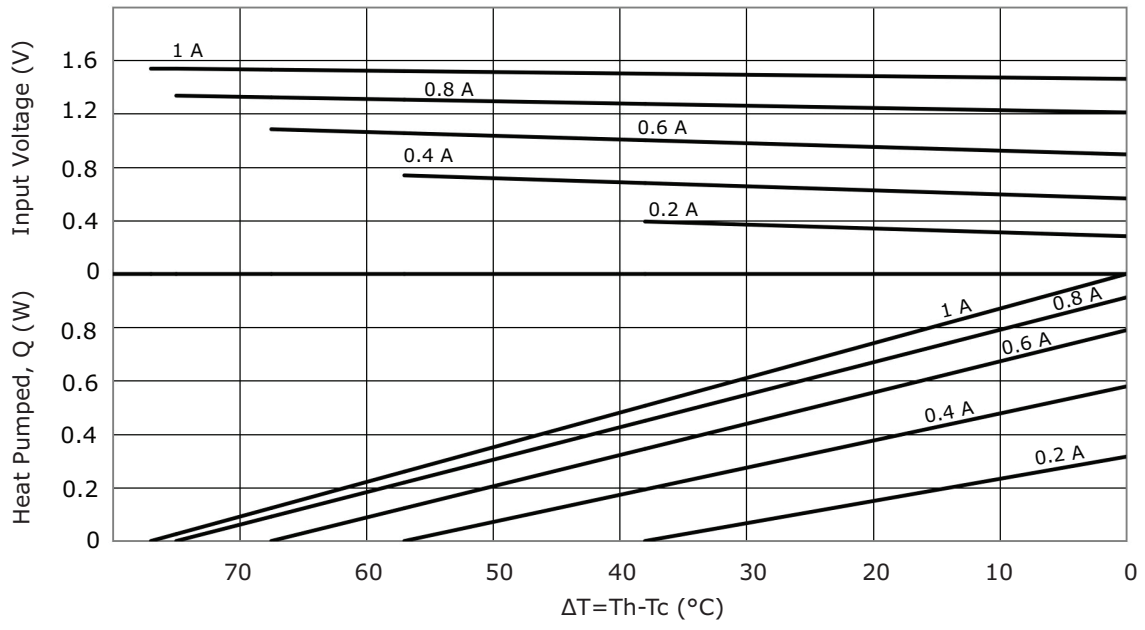
Models: CP10726-268, CP10726-29P

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

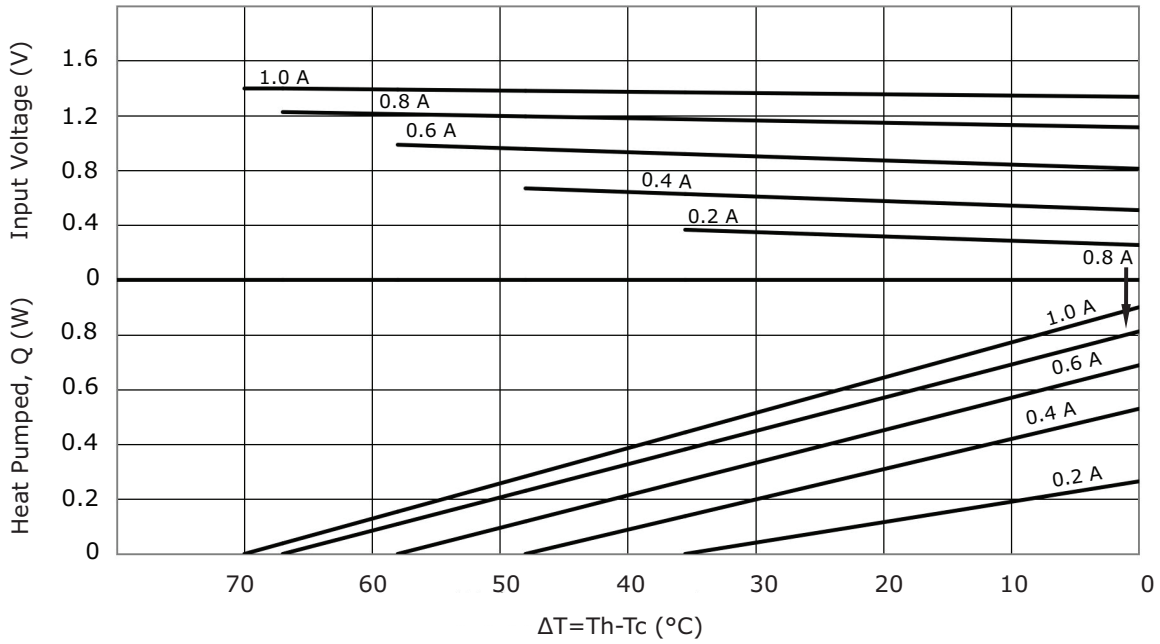
CP1062-268 PERFORMANCE (Th=27°C)



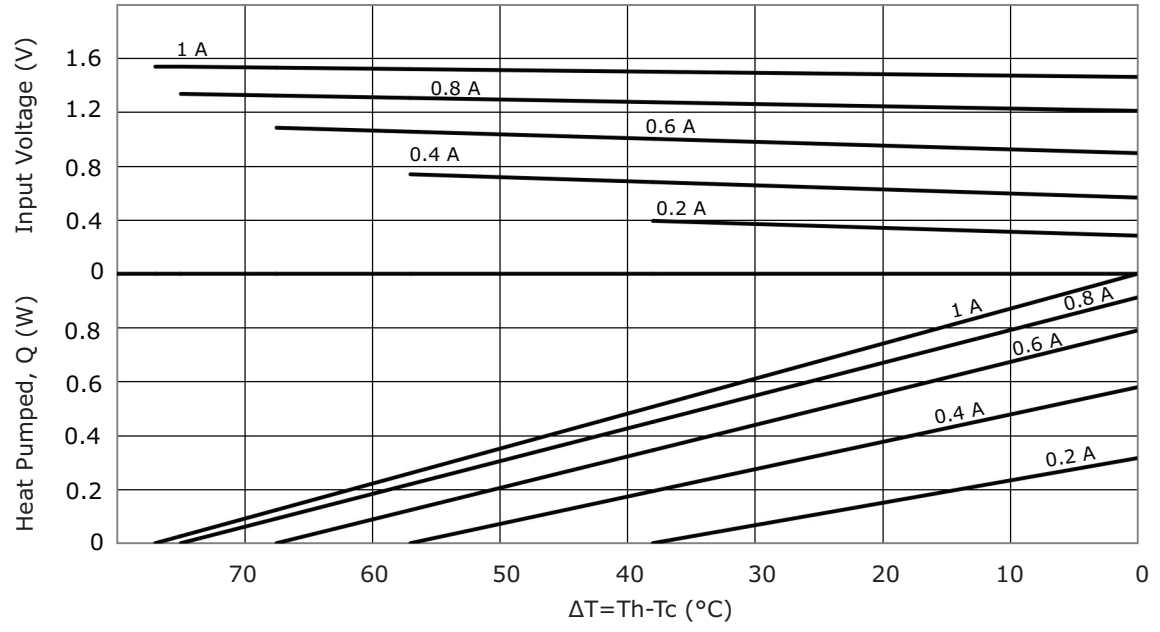
CP1062-268 PERFORMANCE (Th=50°C)



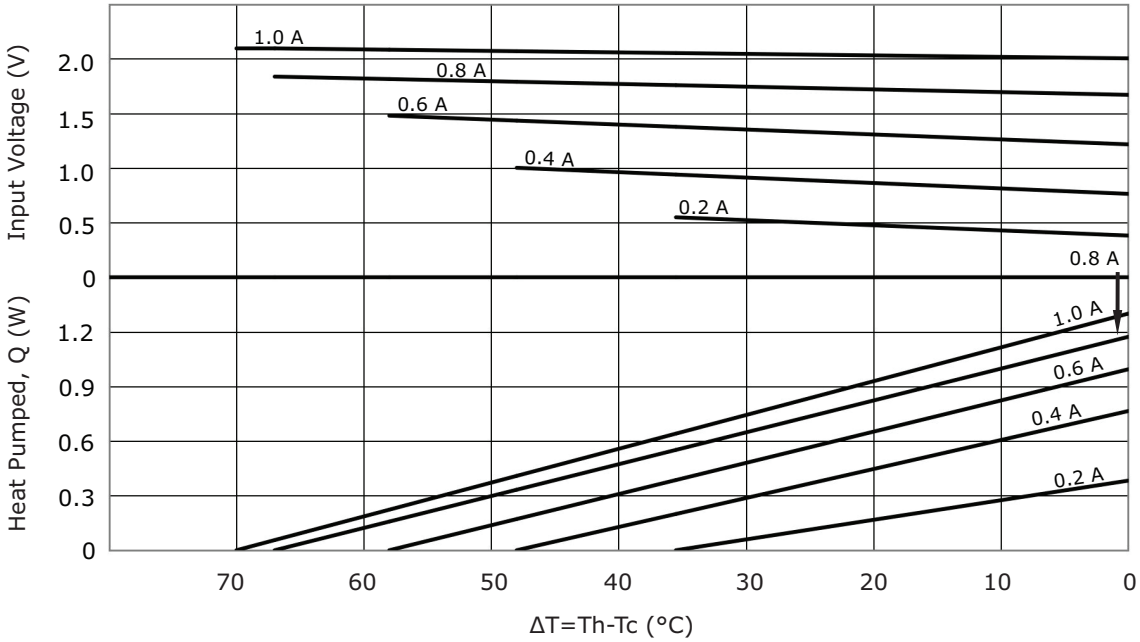
CP1062-268P PERFORMANCE (Th=27°C)



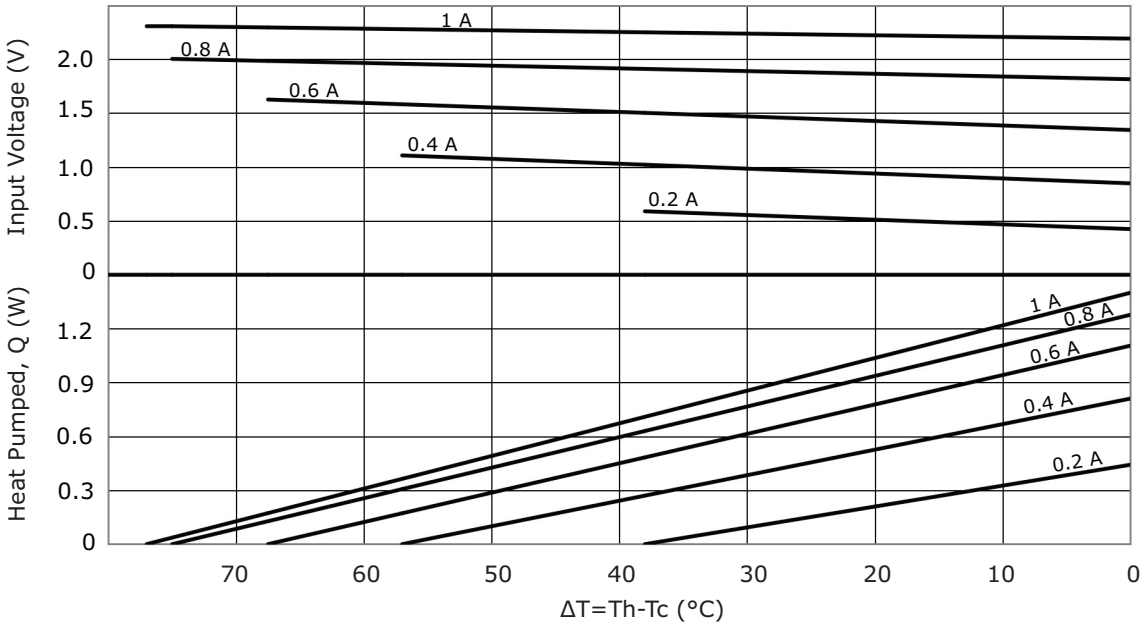
CP1062-268P PERFORMANCE (Th=50°C)



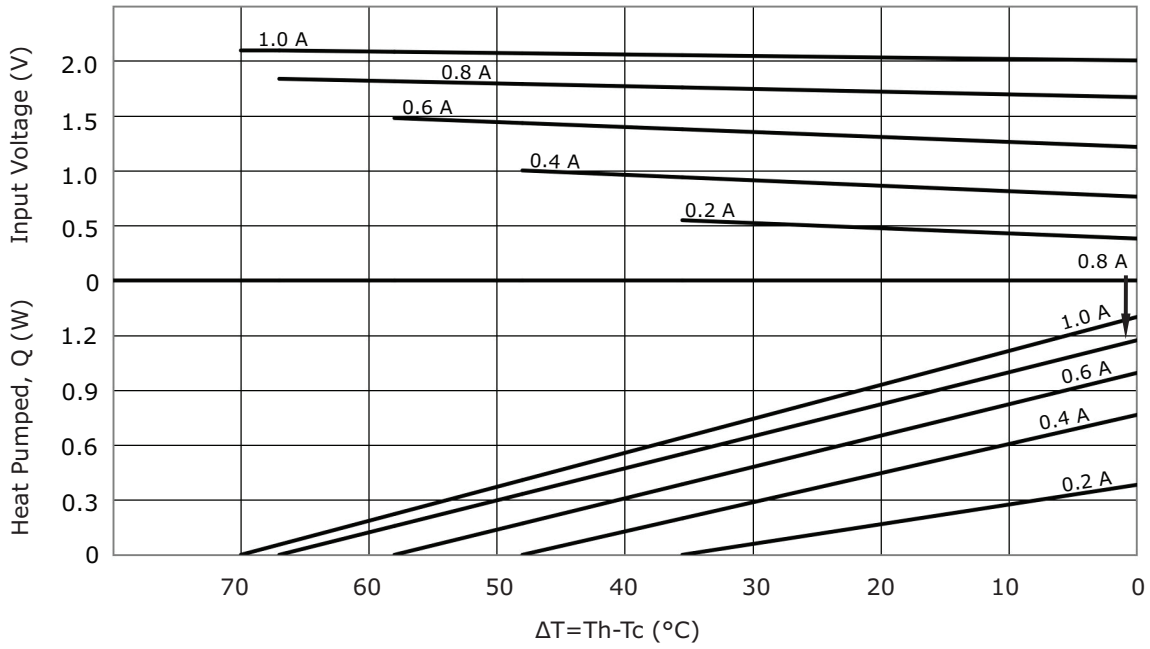
CP106283-268 PERFORMANCE (Th=27°C)



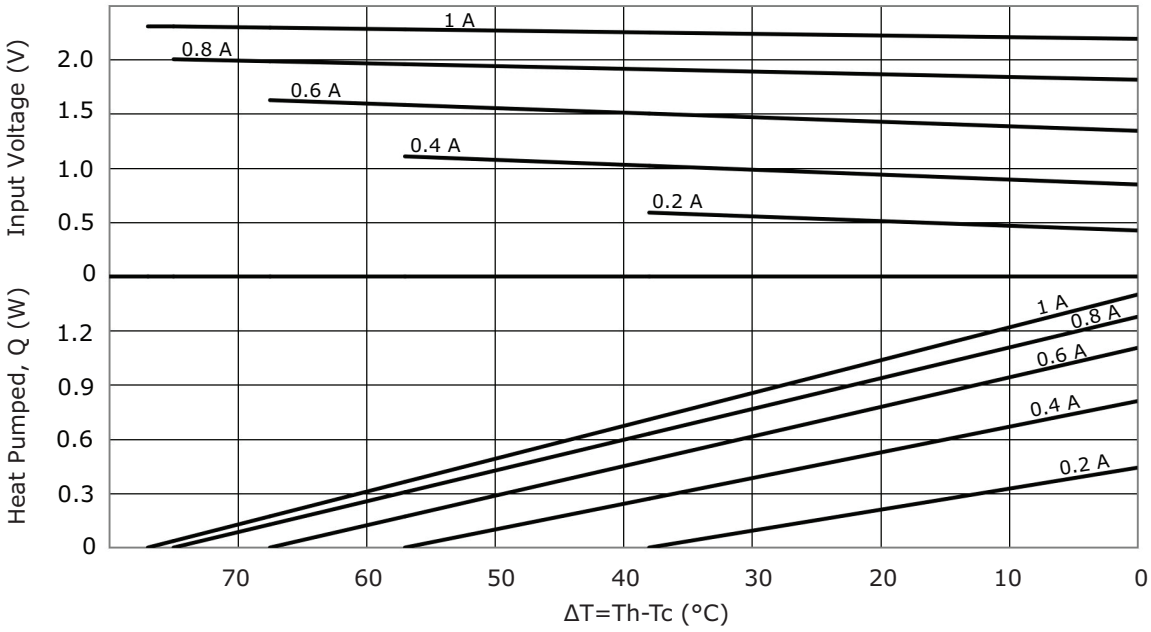
CP106283-268 PERFORMANCE (Th=50°C)



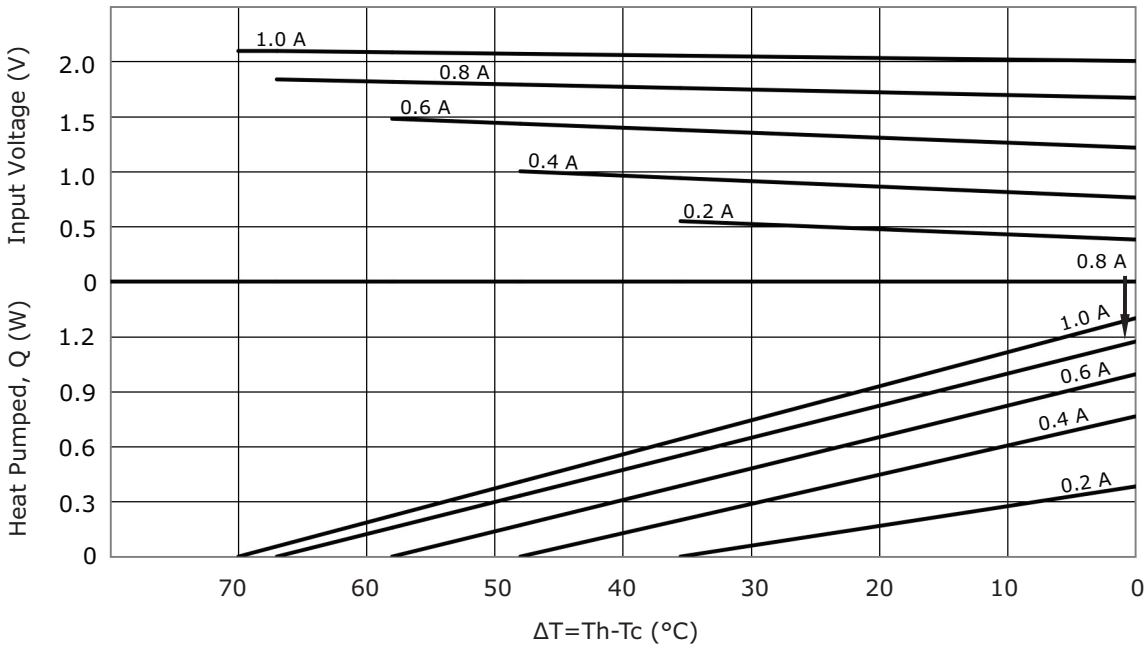
CP106283-29P PERFORMANCE (Th=27°C)



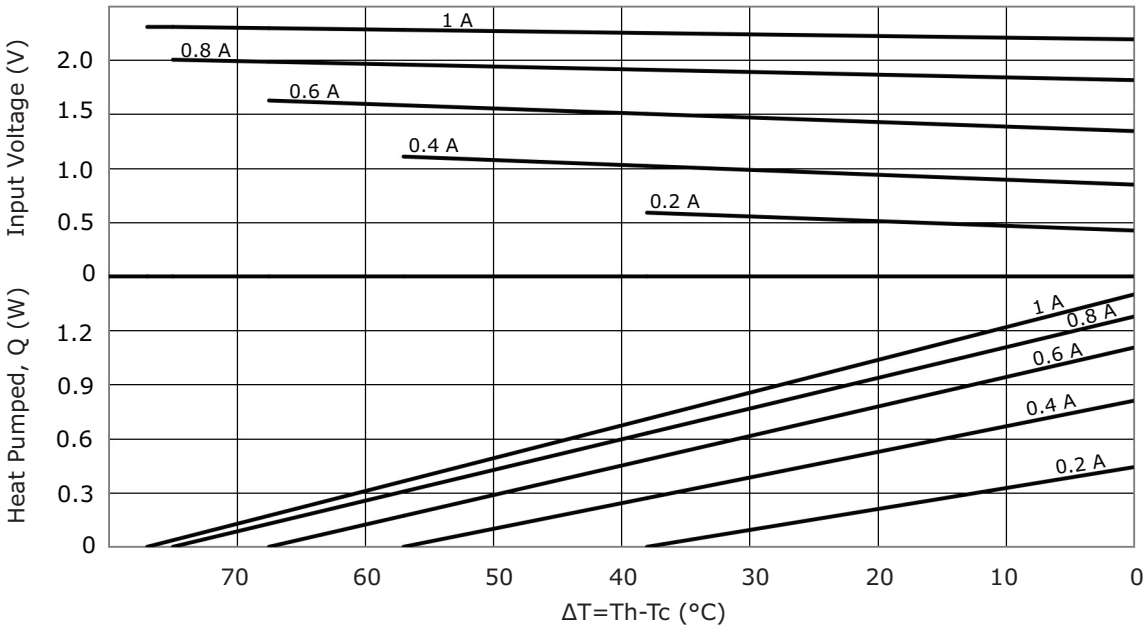
CP106283-29P PERFORMANCE (Th=50°C)



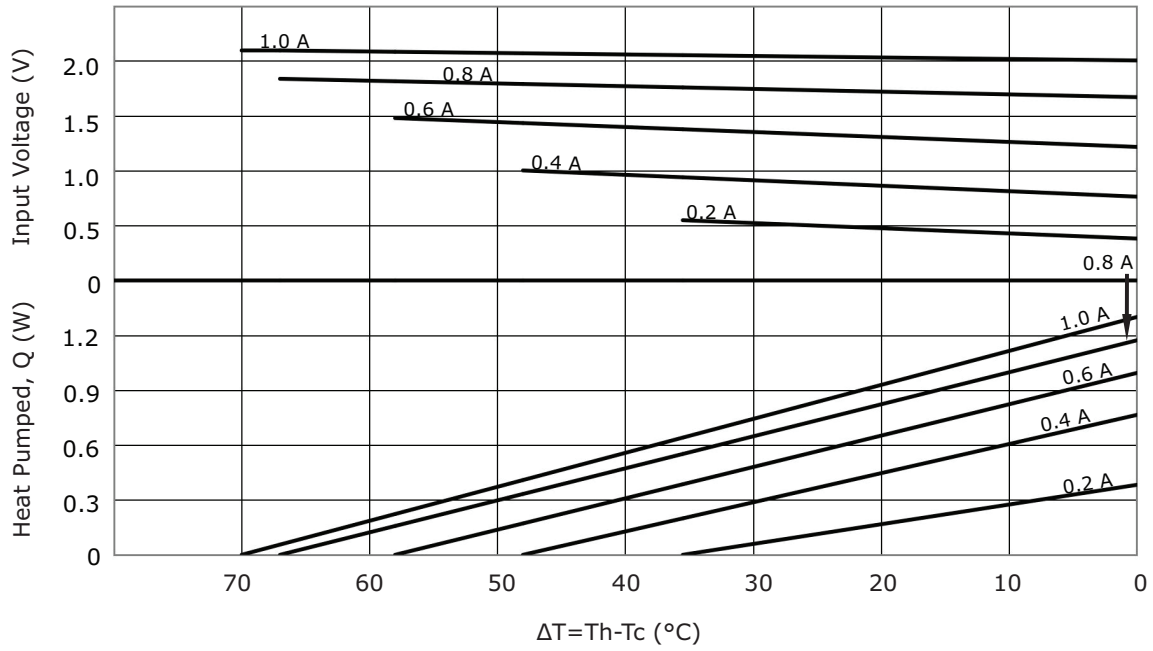
CP10726-268 PERFORMANCE (Th=27°C)



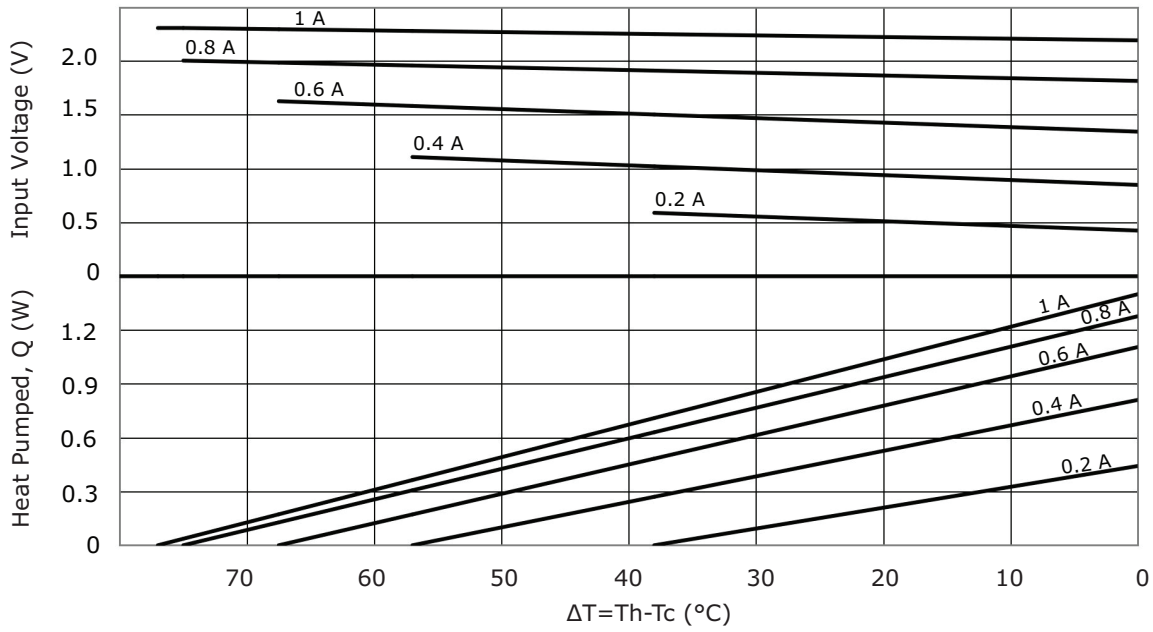
CP10726-268 PERFORMANCE (Th=50°C)



CP10726-29P PERFORMANCE (Th=27°C)



CP10726-29P PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020
1.01	logo, datasheet style update	08/05/2022

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