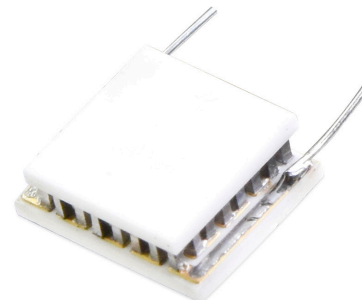


## SERIES: CP07-M | DESCRIPTION: PELTIER MODULE

### FEATURES

- micro size (less than 10 x 10 mm)
- wide  $\Delta T$  max
- $Q_{max}$  up to 1.9 W
- Au plating available, suitable for soldering
- precise temperature control
- solid state construction



MODEL	input voltage <sup>1</sup> max (Vdc)	input current <sup>2</sup> max (A)	internal resistance <sup>3</sup> typ ( $\Omega \pm 10\%$ )	output $Q_{max}$ <sup>4</sup>		output $\Delta T_{max}$ <sup>5</sup>	
				$T_h = 27^\circ\text{C}$ (W)	$T_h = 50^\circ\text{C}$ (W)	$T_h = 27^\circ\text{C}$ ( $^\circ\text{C}$ )	$T_h = 50^\circ\text{C}$ ( $^\circ\text{C}$ )
CP0734-238	0.5	0.7	0.52	0.2	0.2	70	77
CP0734-277P <sup>6</sup>	0.5	0.7	0.52	0.2	0.2	70	77
CP073450-238	1.0	0.7	1.04	0.4	0.5	70	77
CP074933-238	1.3	0.7	1.43	0.6	0.7	70	77
CP074933-277P <sup>6</sup>	1.3	0.7	1.43	0.6	0.7	70	77
CP074965-239	2.1	0.7	2.35	0.9	1.0	70	77
CP074965-238P <sup>6</sup>	2.1	0.7	2.35	0.9	1.0	70	77
CP076581-238	3.9	0.7	4.17	1.7	1.9	70	77
CP076581-238P <sup>6</sup>	3.9	0.7	4.17	1.7	1.9	70	77

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

### SOLDERABILITY<sup>7</sup>

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

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

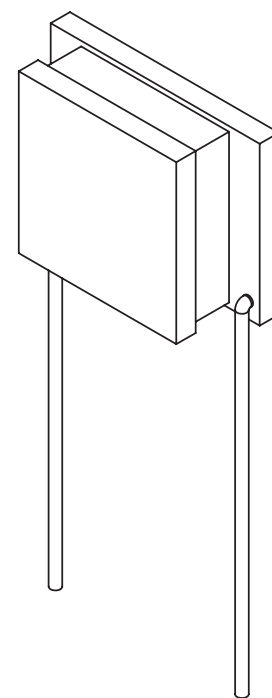
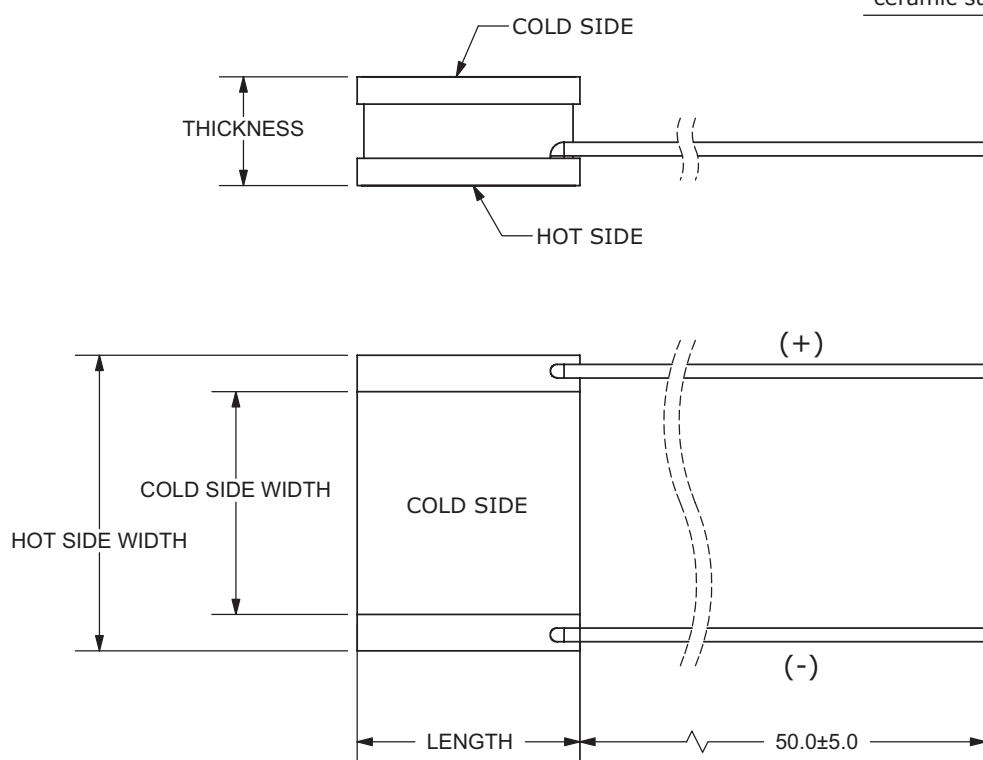
## SPECIFICATIONS

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

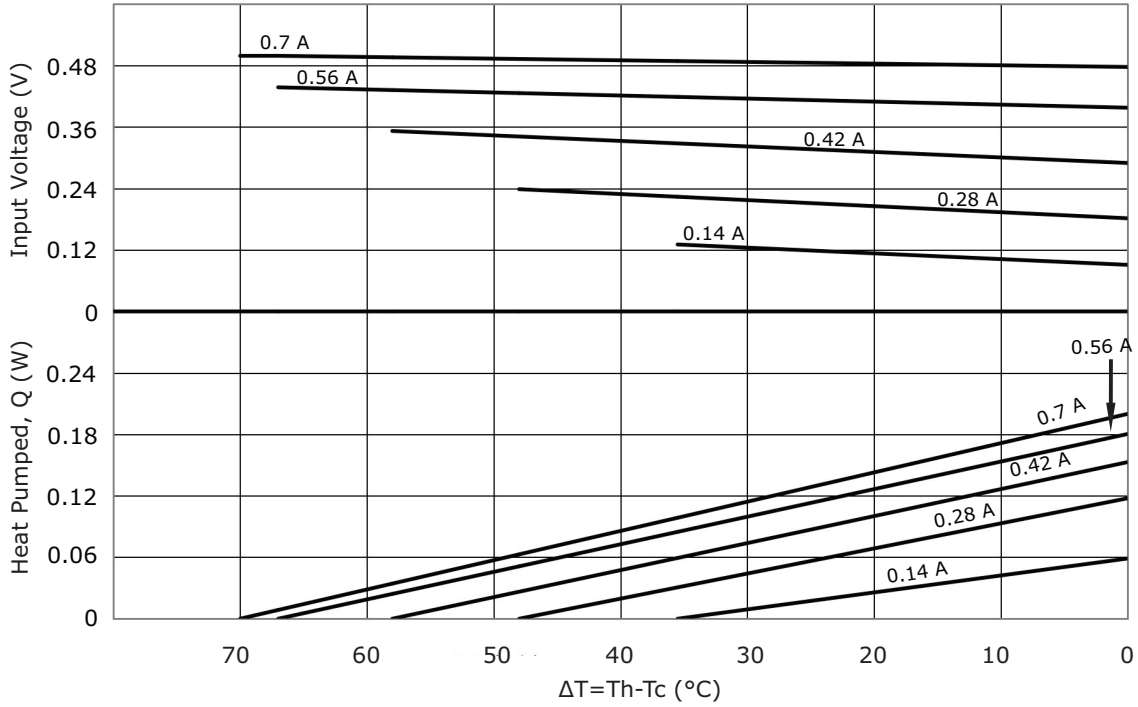
units: mm

	MATERIAL	PLATING
ceramic plate	96% $Al_2O_3$	
wire leads	$\varnothing 0.25-0.3$ mm annealed copper	tin
sealer	no sealing	
ceramic surface	Au plating on select models	

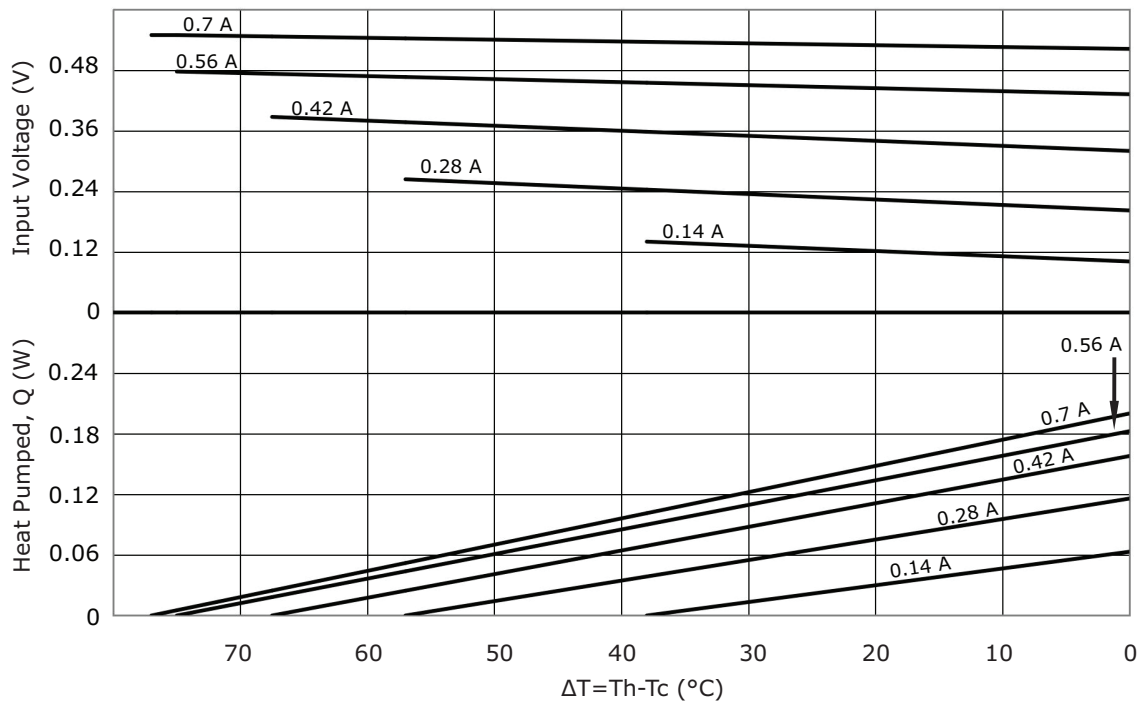


MODEL NO.	LENGTH (mm)	HOT SIDE WIDTH (mm)	COLD SIDE WIDTH (mm)	THICKNESS (mm)	GOLD PLATING HOT/ COLD SIDES
CP0734-238	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.38 ±0.15	NO
CP0734-277P	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.77 ±0.15	YES
CP073450-238	3.4 ±0.3	5.0 ±0.3	3.4 ±0.3	2.38 ±0.15	NO
CP074933-238	4.9 ±0.3	3.3 ±0.3	3.3 ±0.3	2.38 ±0.15	NO
CP074933-277P	4.9 ±0.3	3.3 ±0.3	3.3 ±0.3	2.77 ±0.15	YES
CP074965-239	4.9 ±0.3	6.5 ±0.3	4.9 ±0.3	2.38 ±0.15	NO
CP074965-238P	4.9 ±0.3	6.5 ±0.3	4.9 ±0.3	2.77 ±0.15	YES
CP076581-238	6.5 ±0.3	8.1 ±0.3	6.5 ±0.3	2.38 ±0.15	NO
CP076581-238P	6.5 ±0.3	8.1 ±0.3	6.5 ±0.3	2.77 ±0.15	YES

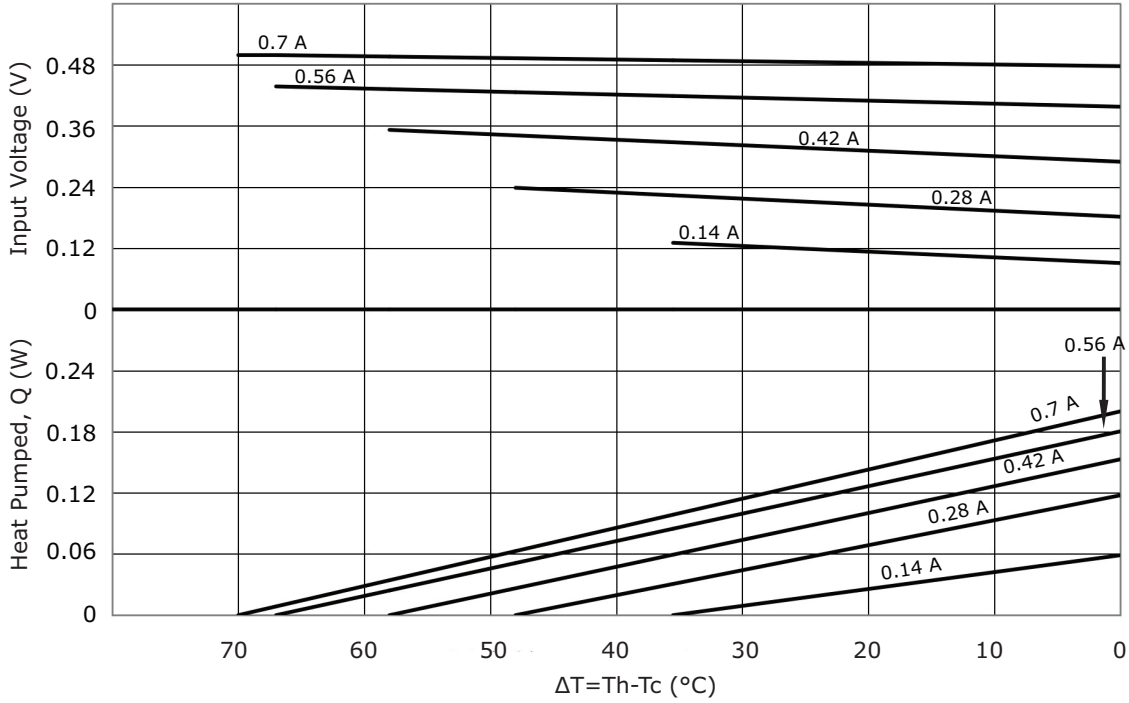
### CP0734-238 PERFORMANCE (Th=27°C)



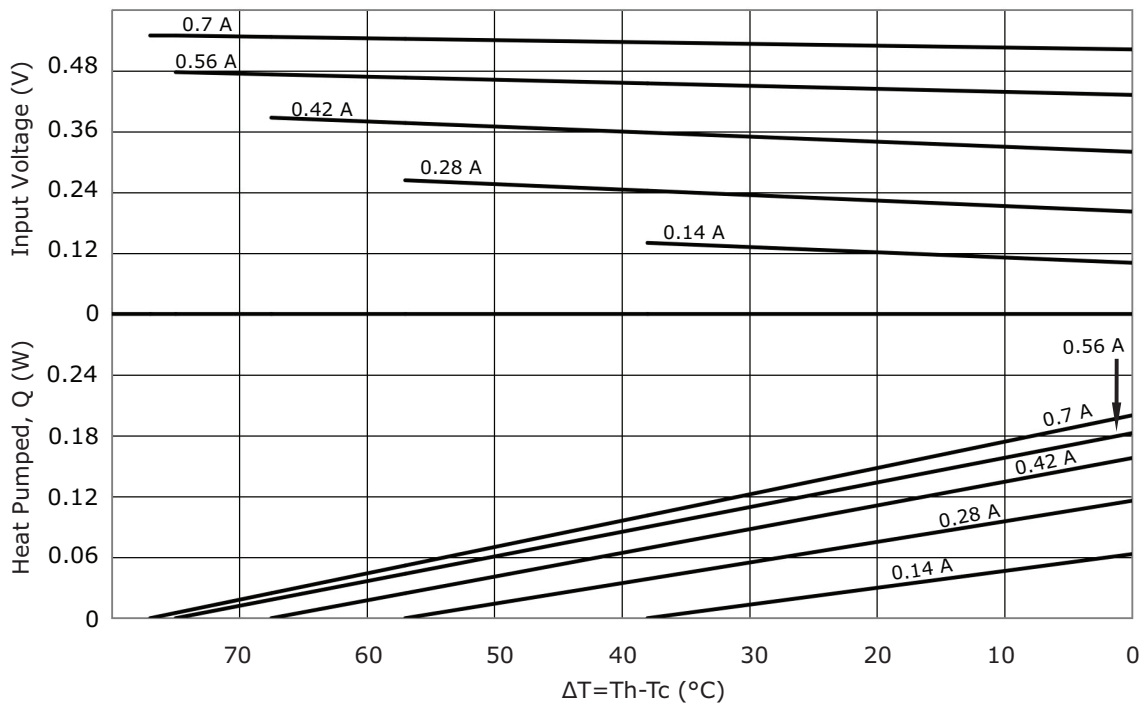
### CP0734-238 PERFORMANCE (Th=50°C)



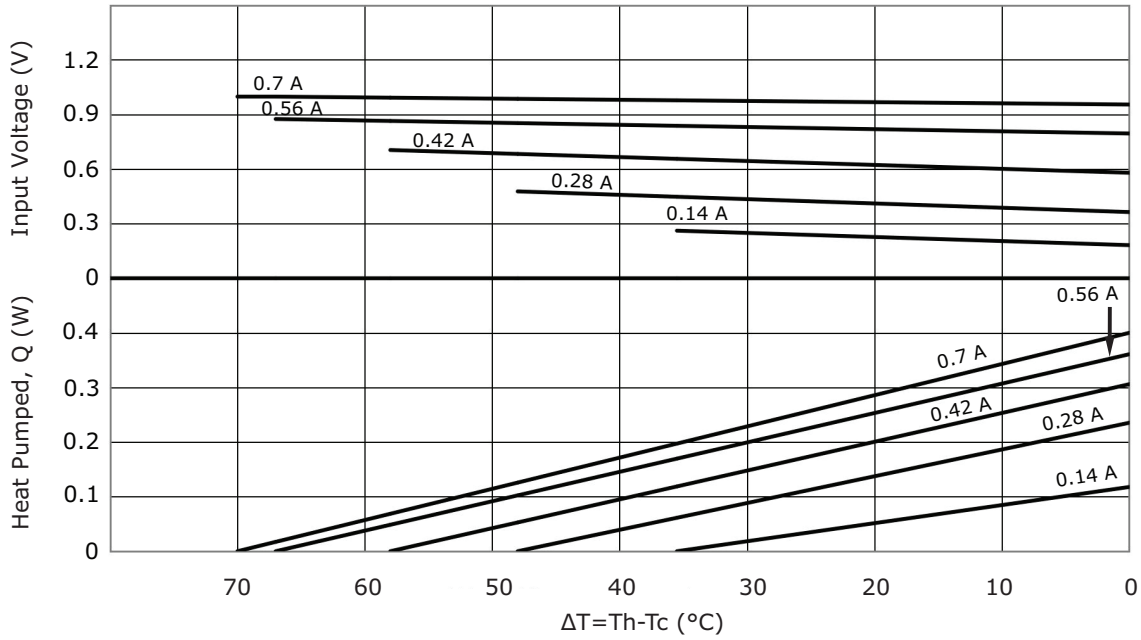
### CP0734-277P PERFORMANCE (Th=27°C)



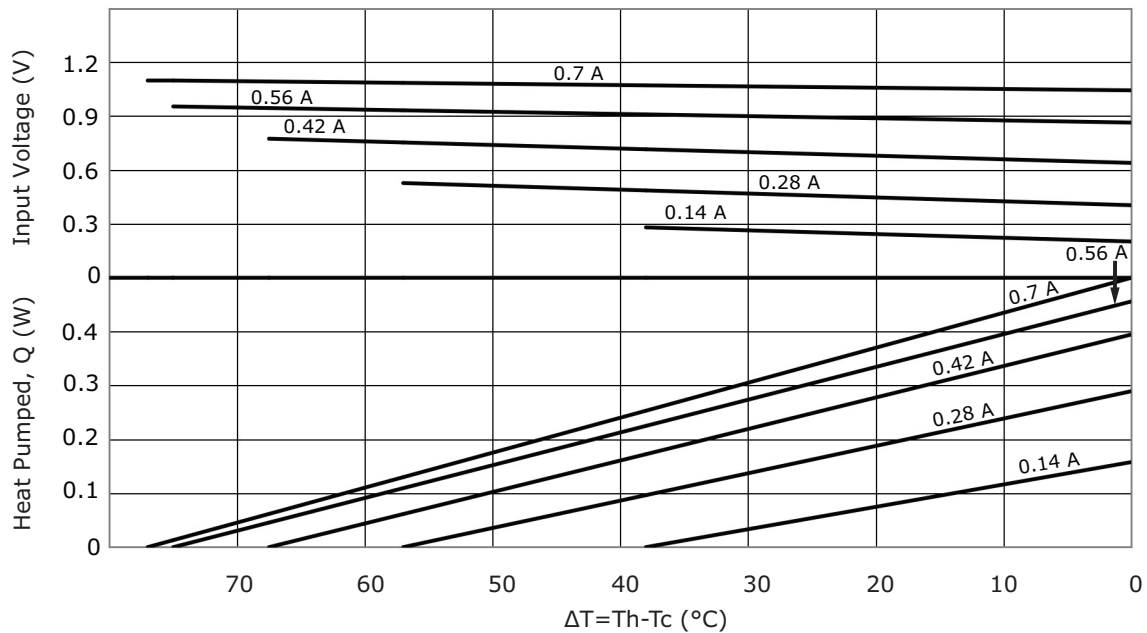
### CP0734-277P PERFORMANCE (Th=50°C)



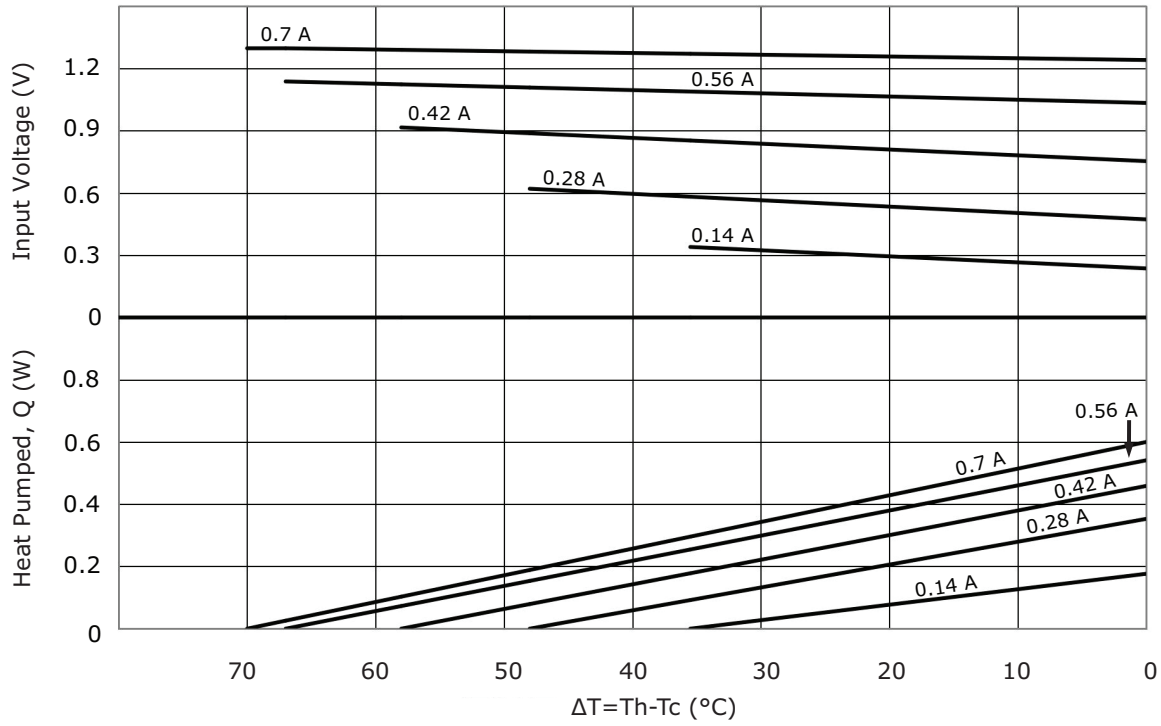
### CP073450-238 PERFORMANCE (Th=27°C)



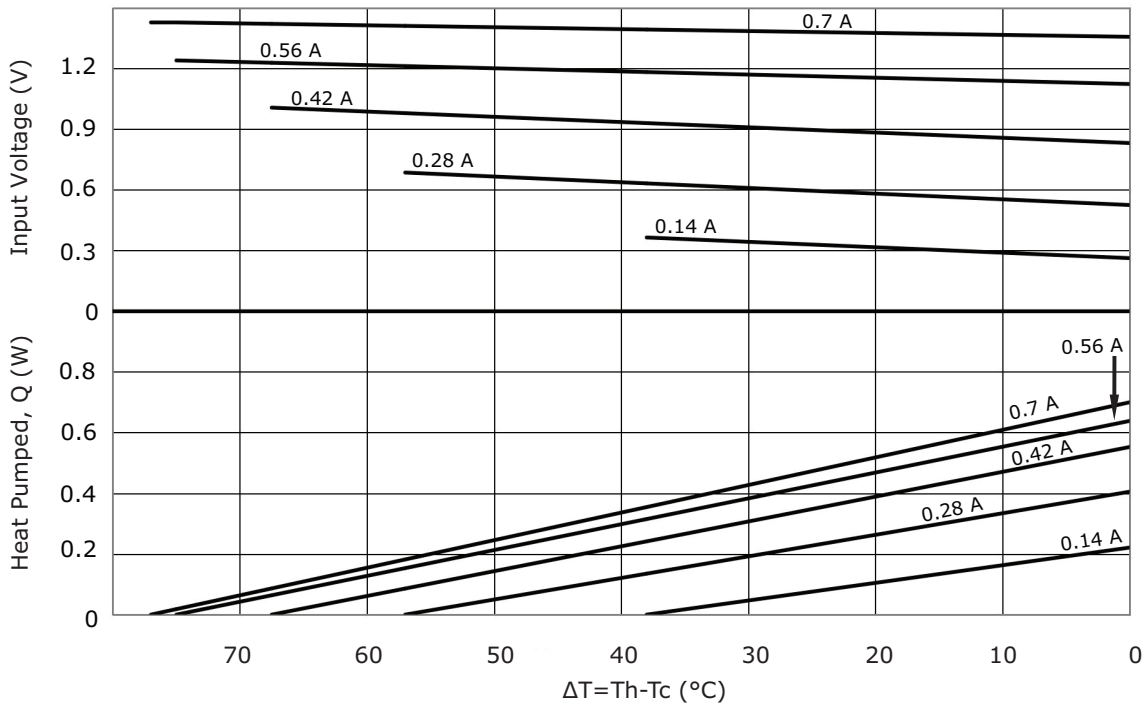
### CP073450-238 PERFORMANCE (Th=50°C)



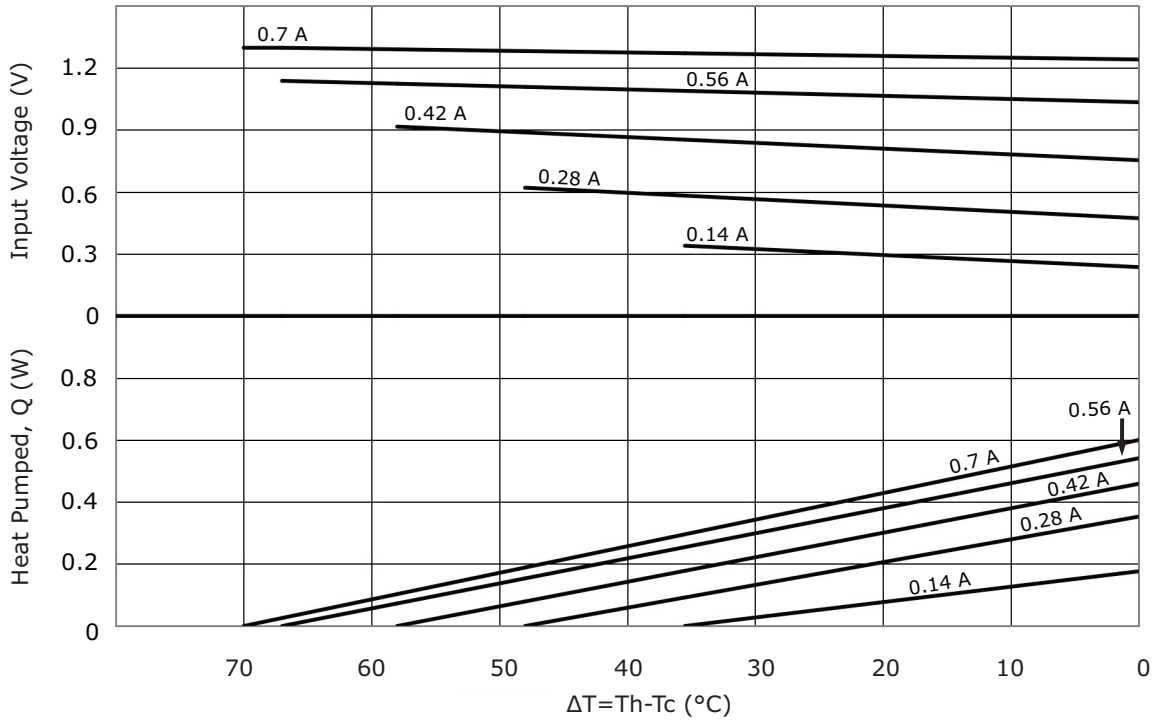
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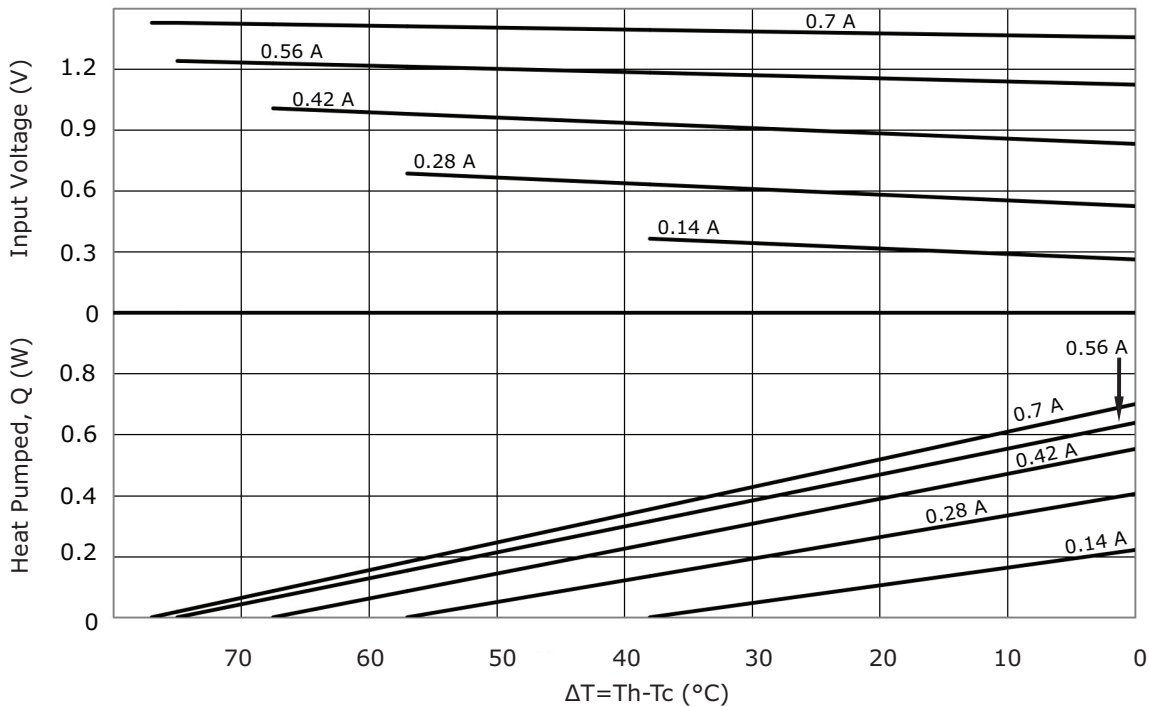
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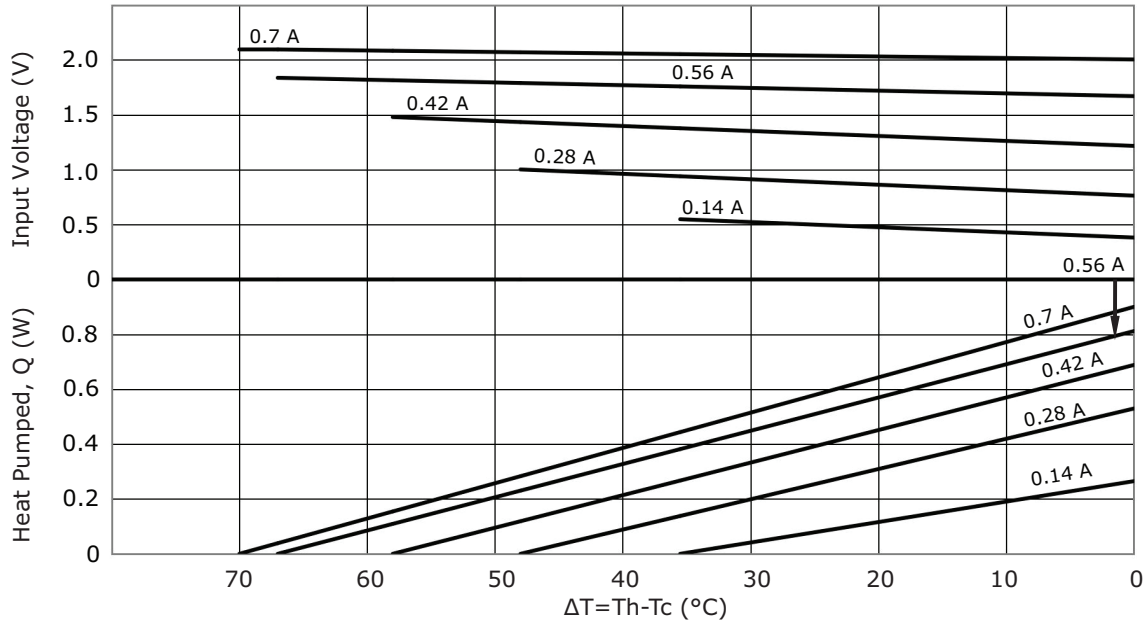
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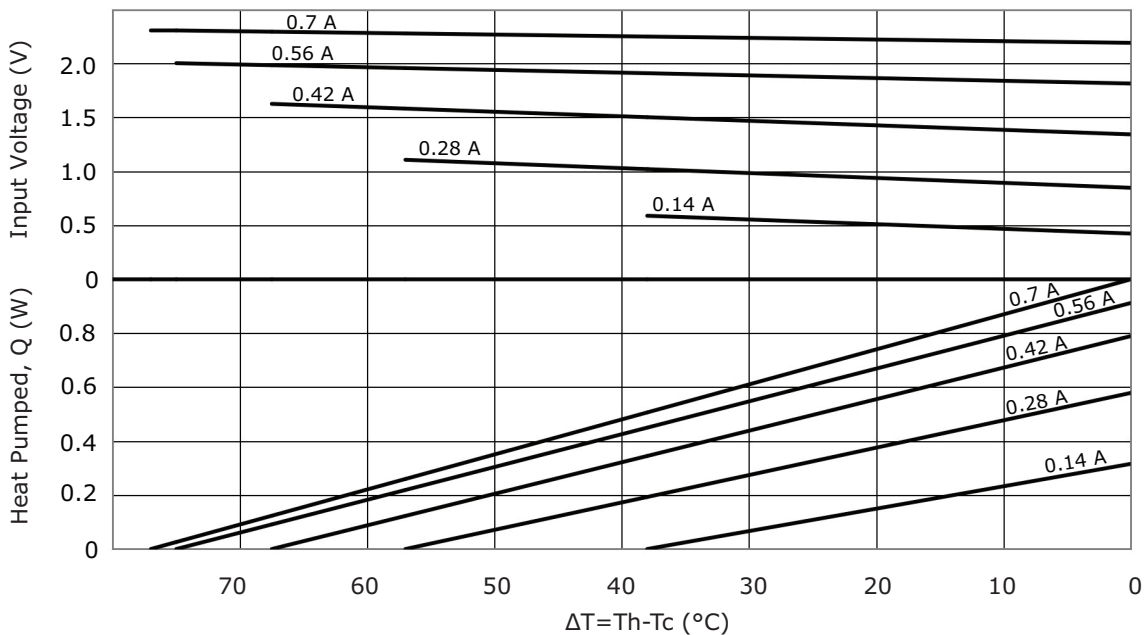
### CP074933-277P PERFORMANCE (Th=50°C)



### CP074965-239 PERFORMANCE (Th=27°C)

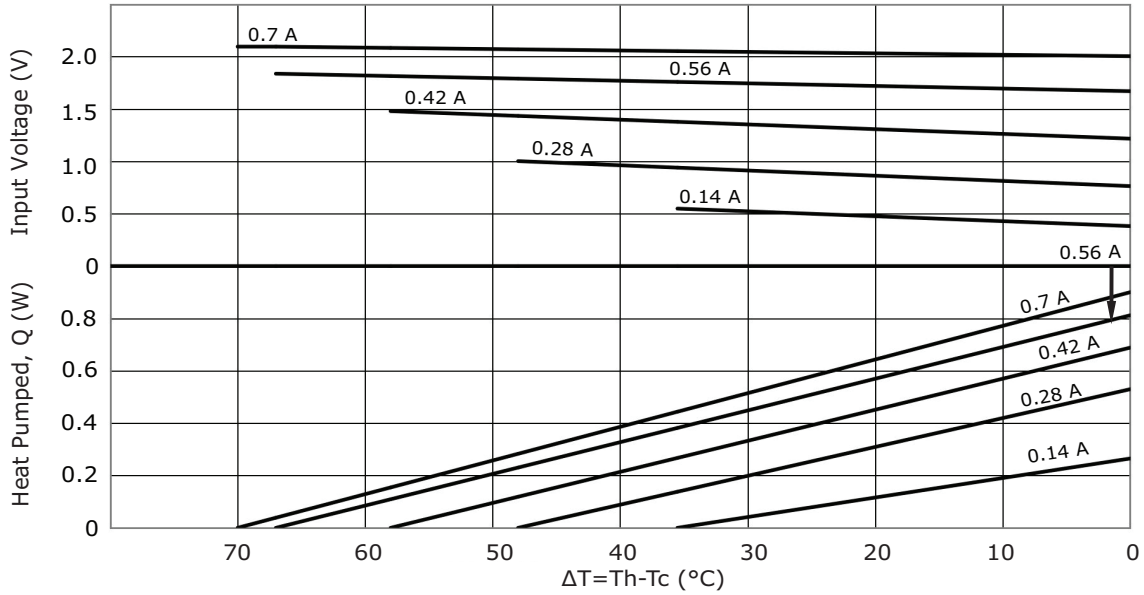


### CP074965-239 PERFORMANCE (Th=50°C)

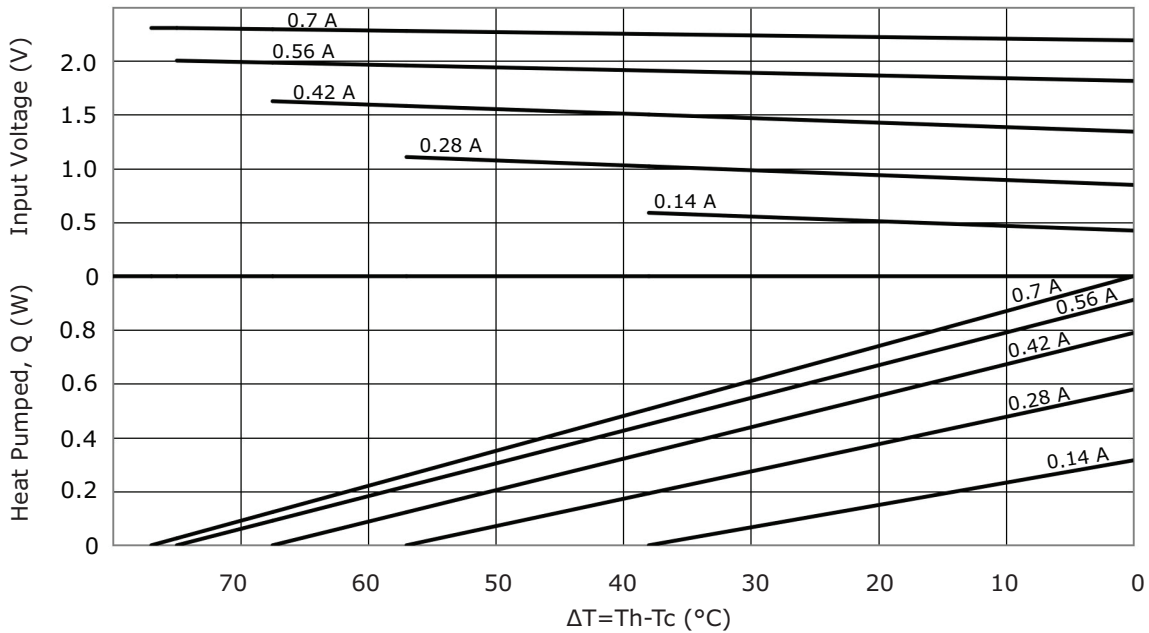




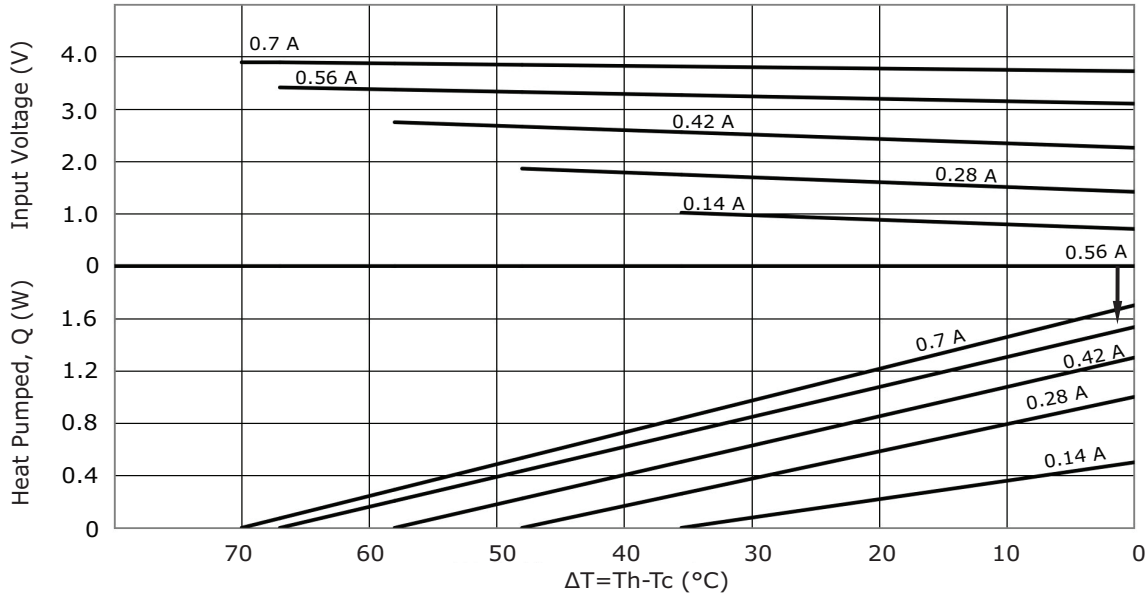
### CP074965-238P PERFORMANCE (Th=27°C)



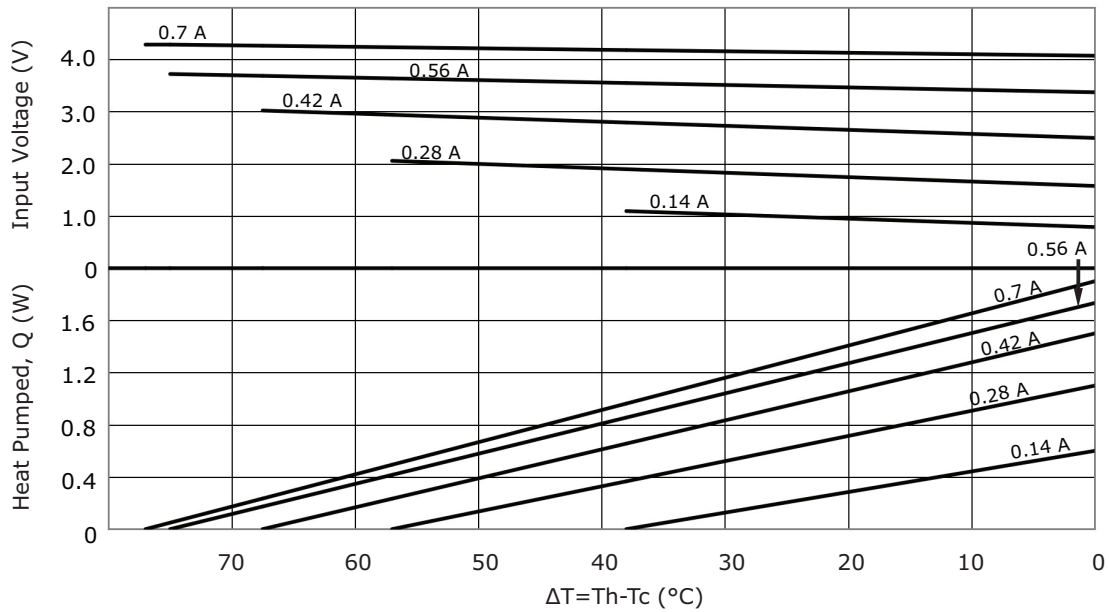
### CP074965-238P PERFORMANCE (Th=50°C)



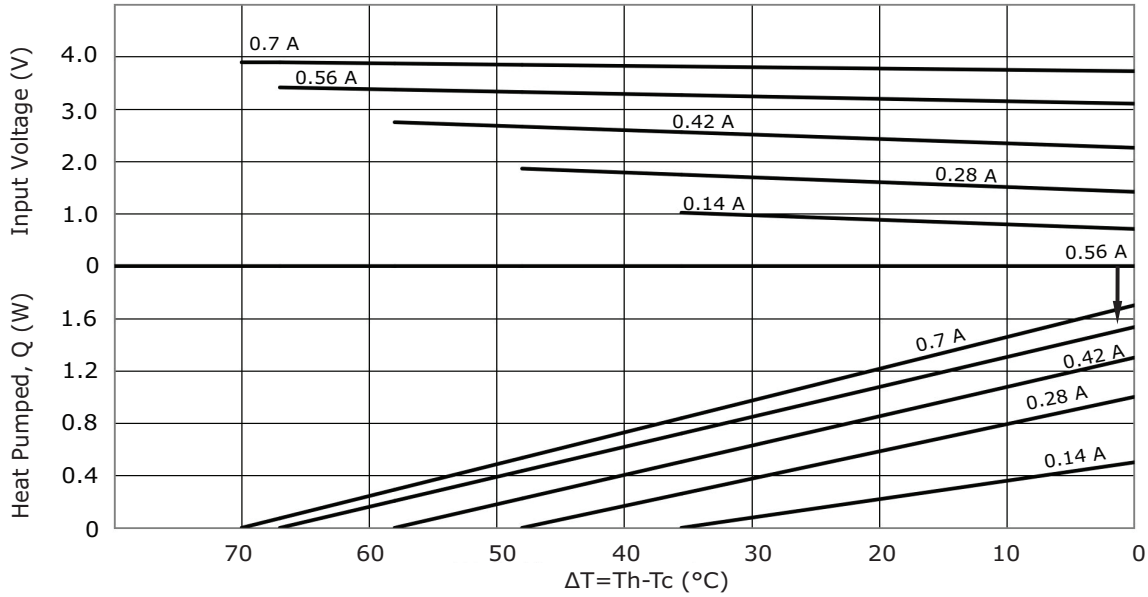
### CP076581-238 PERFORMANCE (Th=27°C)



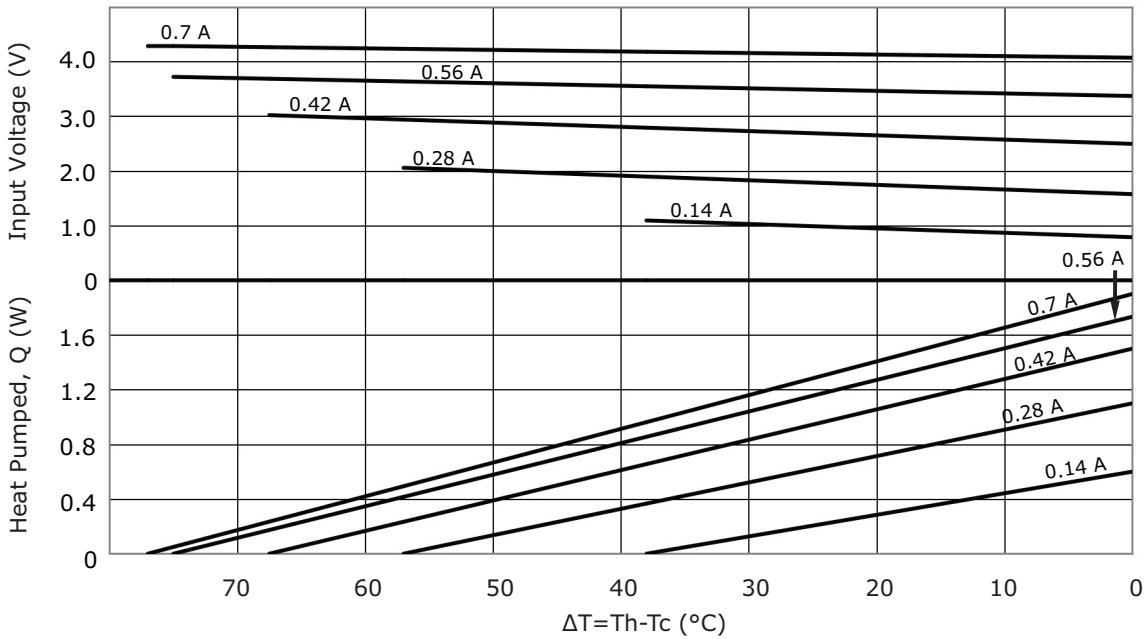
### CP076581-238 PERFORMANCE (Th=50°C)



### CP076581-238P PERFORMANCE (Th=27°C)



### CP076581-238P PERFORMANCE (Th=50°C)



## REVISION HISTORY

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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.

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