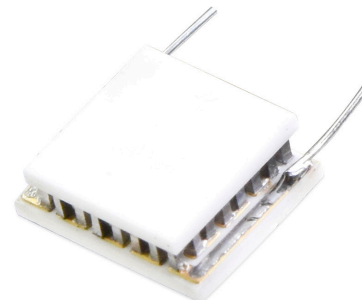


SERIES: CP07-M | DESCRIPTION: PELTIER MODULE

FEATURES

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



MODEL	input voltage ¹ max (Vdc)	input current ² max (A)	internal resistance ³ typ ($\Omega \pm 10\%$)	output Q_{max} ⁴		output ΔT_{max} ⁵	
				$T_h = 27^\circ\text{C}$ (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 ⁶	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 ⁶	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 ⁶	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 ⁶	3.9	0.7	4.17	1.7	1.9	70	77

- Notes:
1. Maximum voltage at ΔT max and $T_h = 27^\circ\text{C}$
 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 $\Delta T = 0^\circ\text{C}$
 5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q = 0\text{W}$ (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	$^\circ\text{C}$

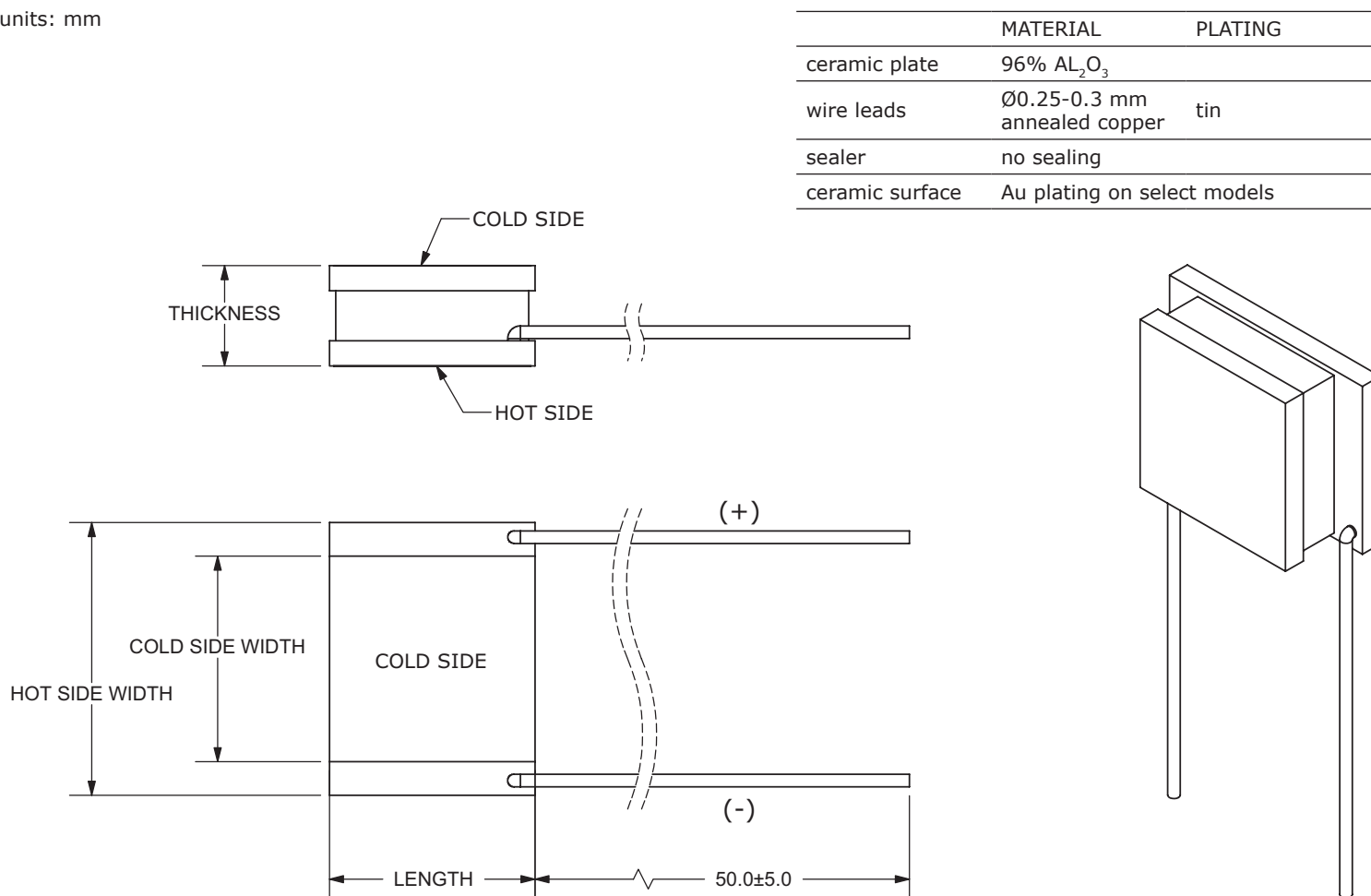
- Note:
7. Only for gold plated models. The solder that holds the peltier together melts at 235°C . Caution must be taken to not leave the soldering iron in contact with the surface too long, or damage to the peltier could occur.

SPECIFICATIONS

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

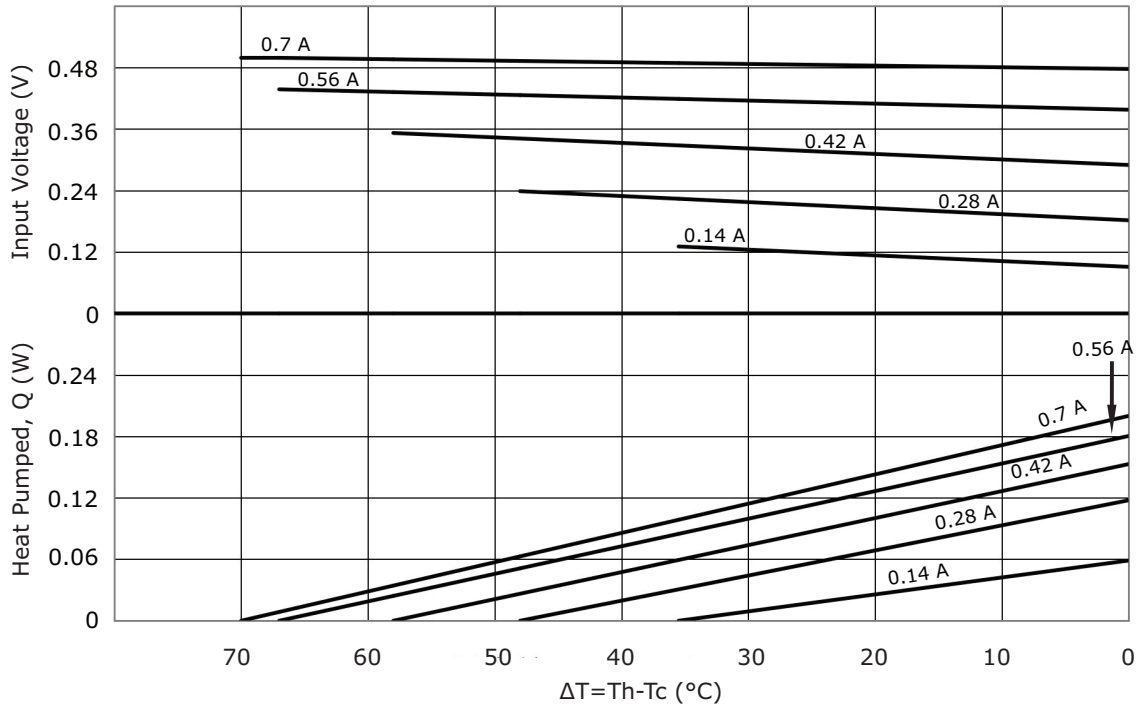
MECHANICAL DRAWING

units: mm

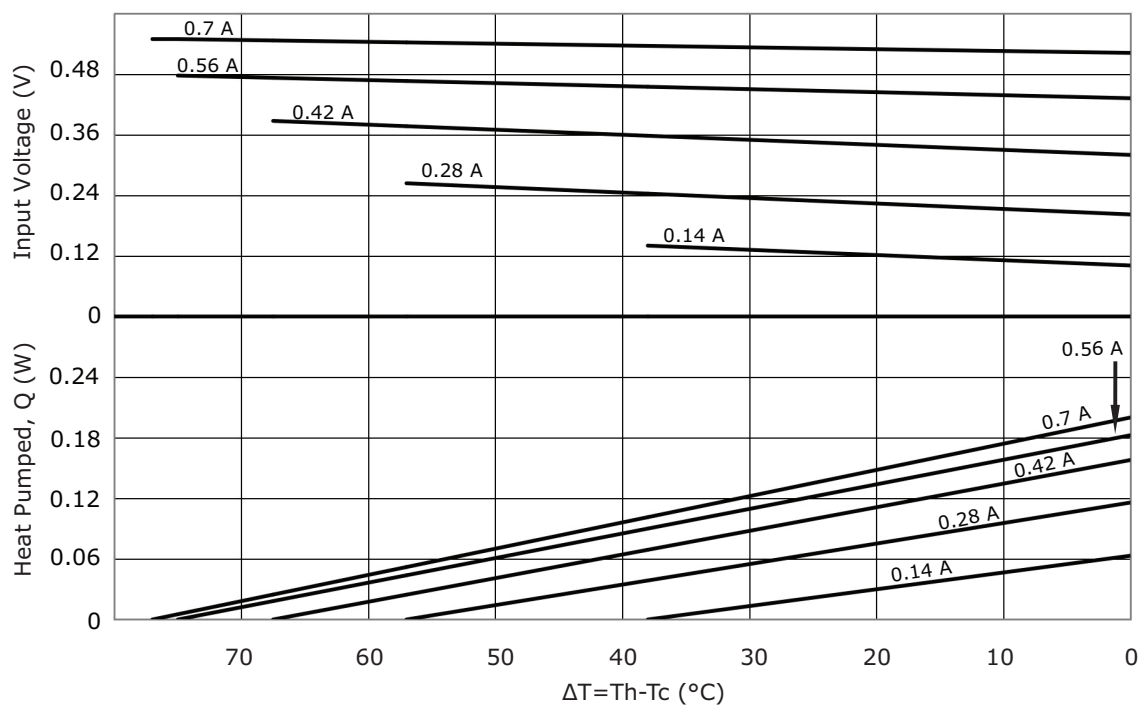


MODEL NO.	LENGTH (mm)	HOT SIDE WIDTH (mm)	COLD SIDE WIDTH (mm)	THICKNESS (mm)	GOLD PLATING HOT/ COLD SIDES
CP0734-238	3.4 ± 0.3	3.4 ± 0.3	1.8 ± 0.3	2.38 ± 0.15	NO
CP0734-277P	3.4 ± 0.3	3.4 ± 0.3	1.8 ± 0.3	2.77 ± 0.15	YES
CP073450-238	3.4 ± 0.3	5.0 ± 0.3	3.4 ± 0.3	2.38 ± 0.15	NO
CP074933-238	4.9 ± 0.3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

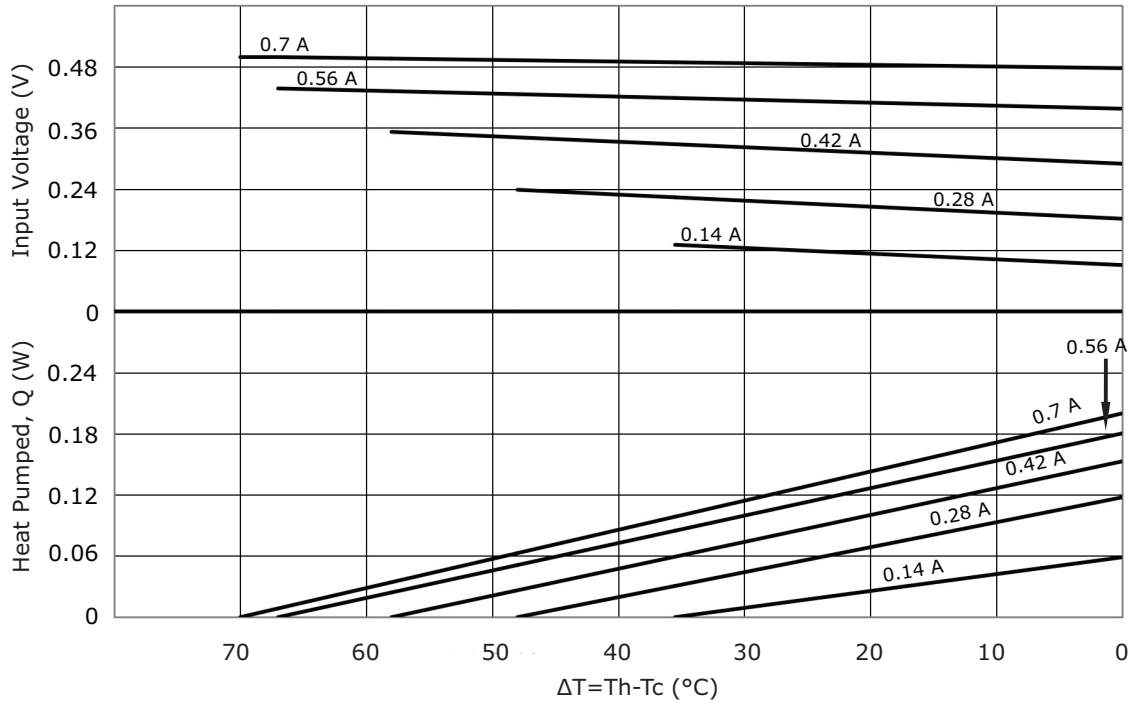
CP0734-238 PERFORMANCE (Th=27°C)



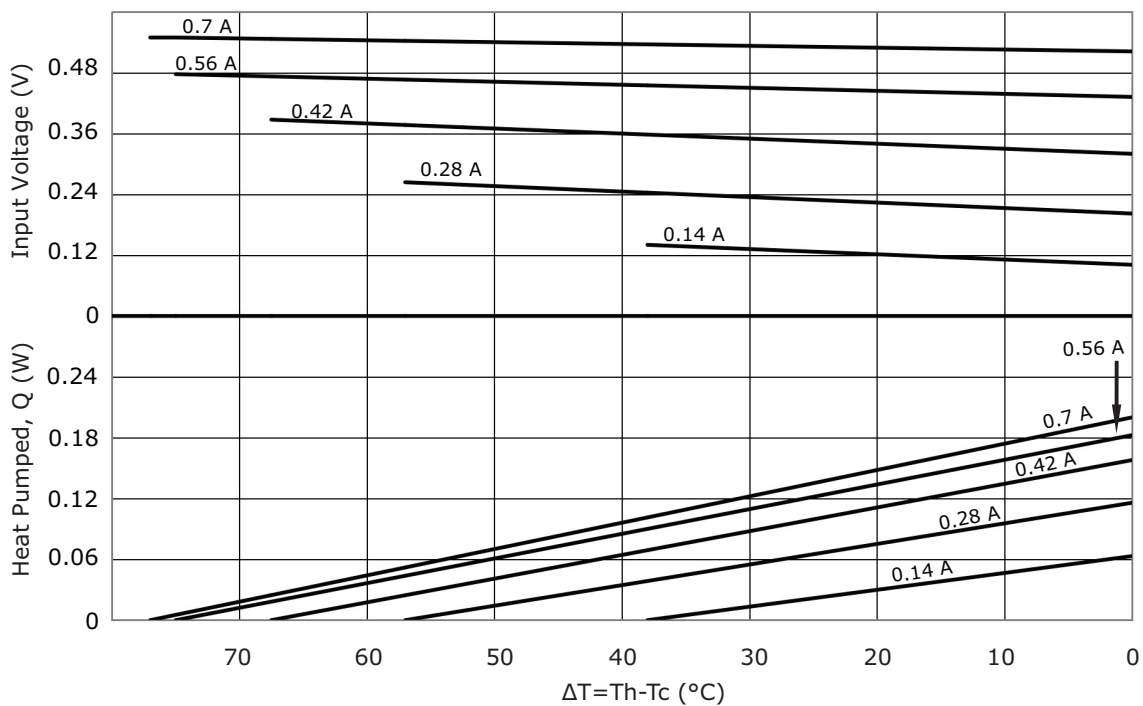
CP0734-238 PERFORMANCE (Th=50°C)



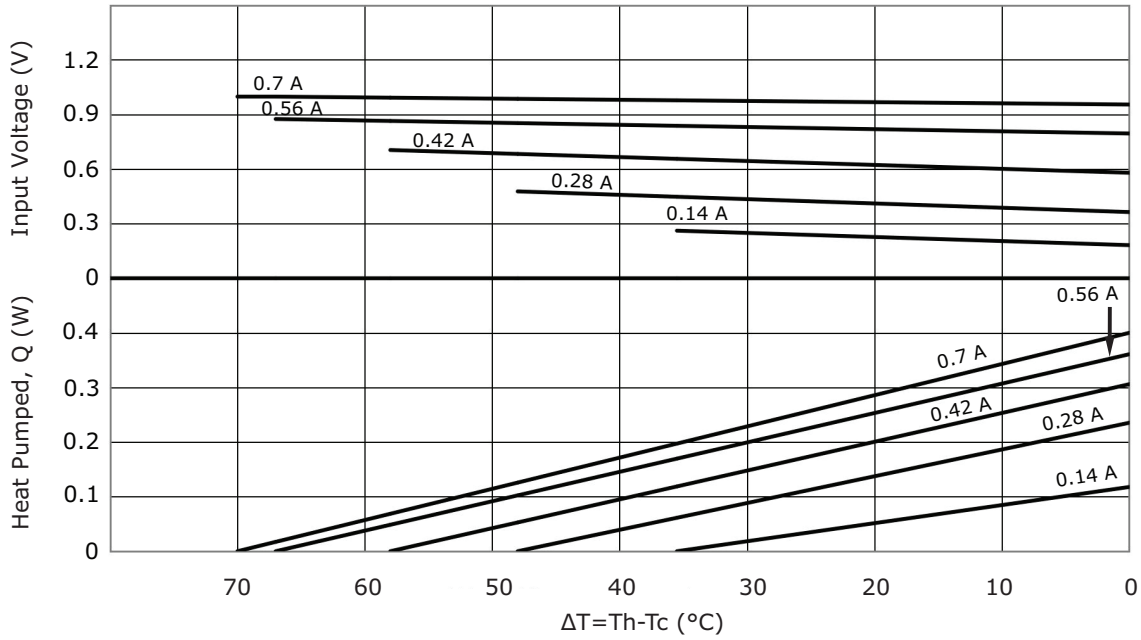
CP0734-277P PERFORMANCE (Th=27°C)



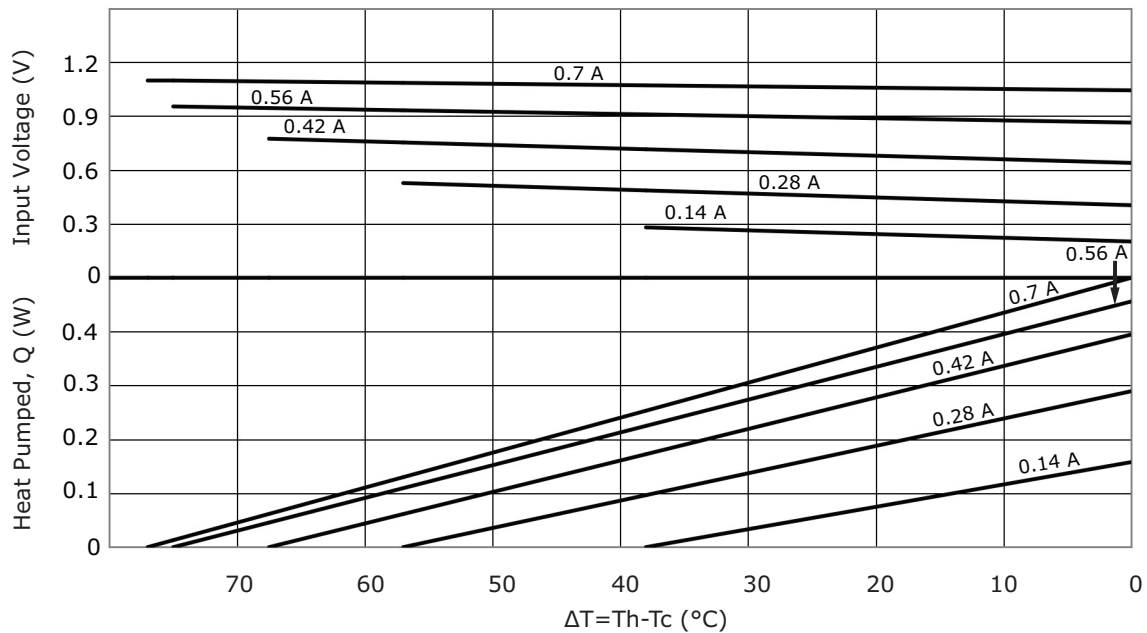
CP0734-277P PERFORMANCE (Th=50°C)



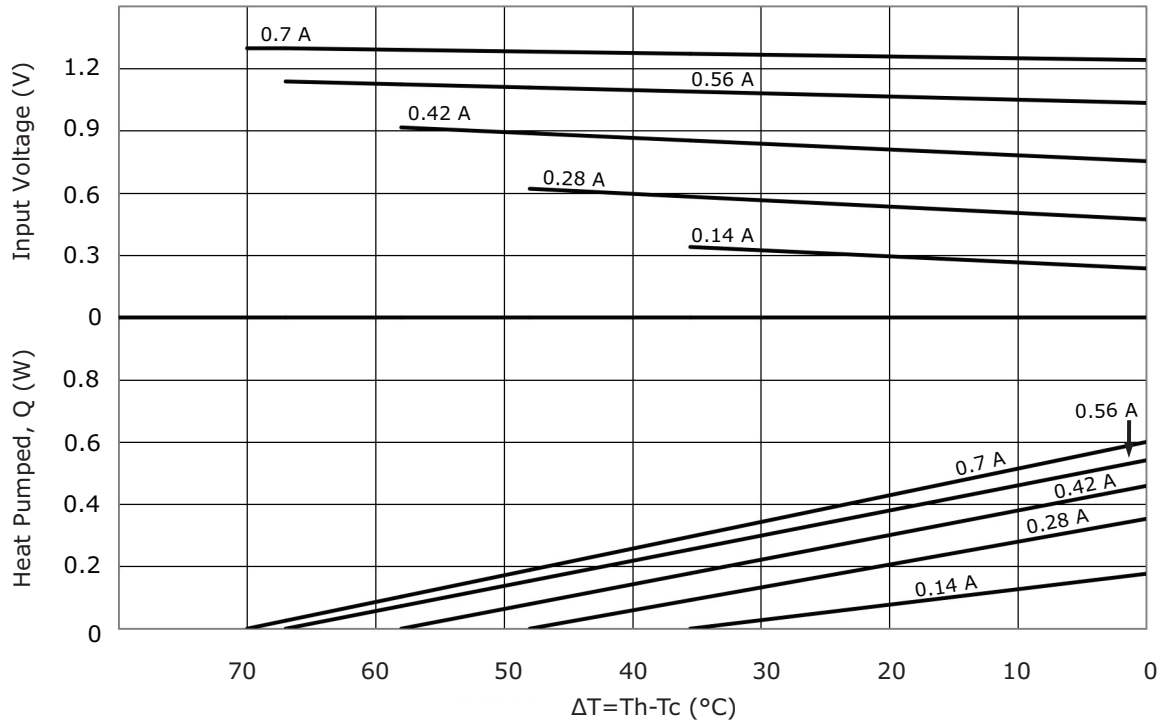
CP073450-238 PERFORMANCE (Th=27°C)



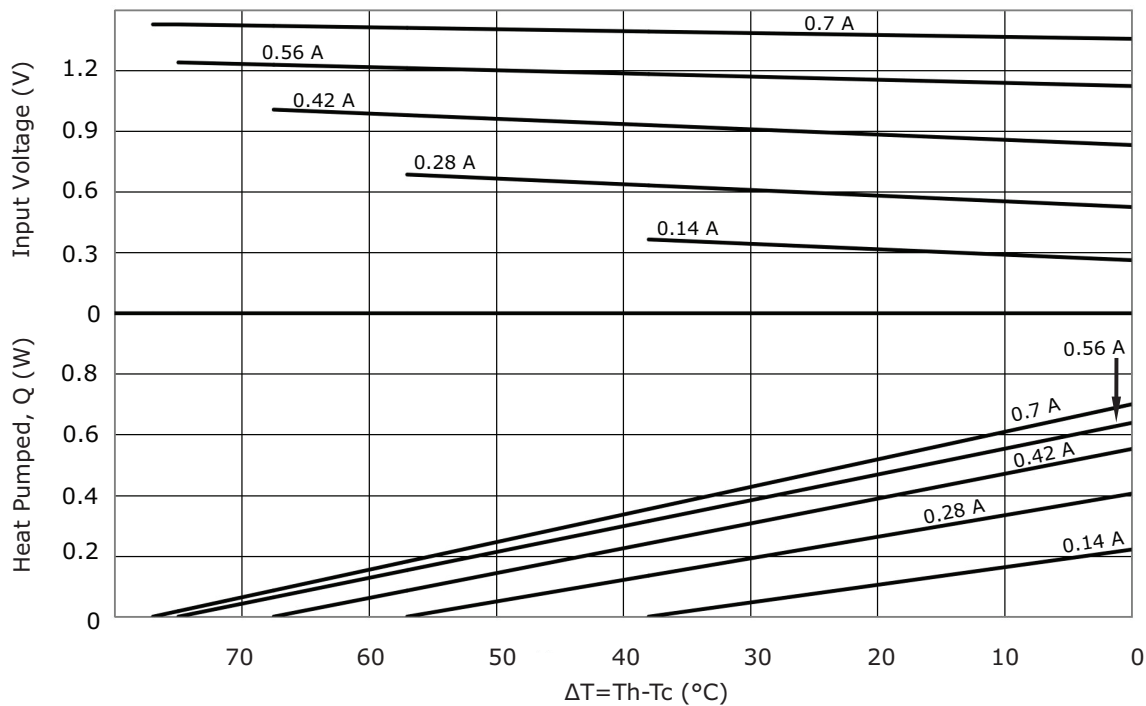
CP073450-238 PERFORMANCE (Th=50°C)



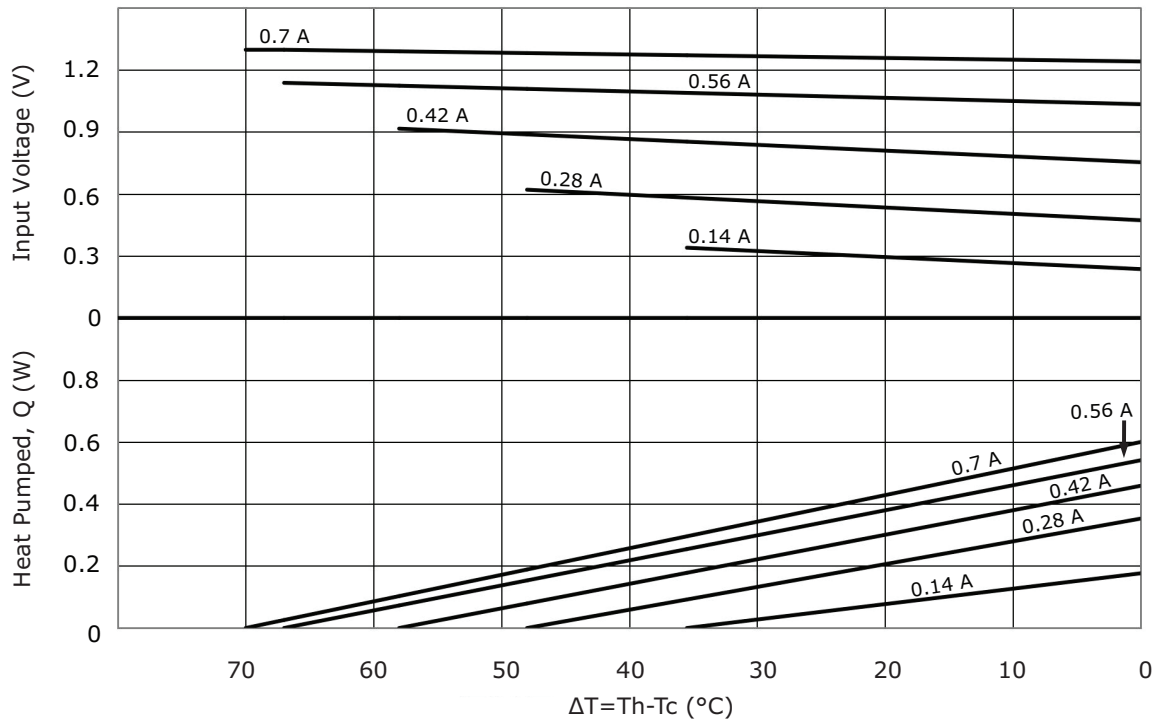
CP074933-238 PERFORMANCE (Th=27°C)



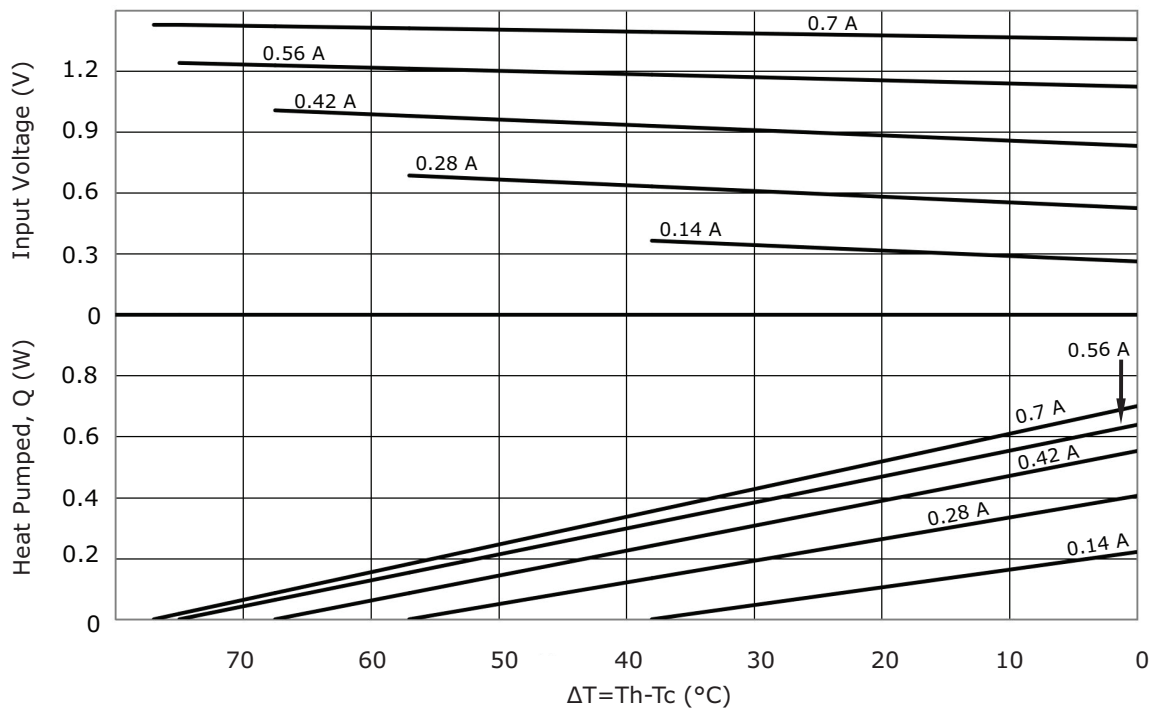
CP074933-238 PERFORMANCE (Th=50°C)



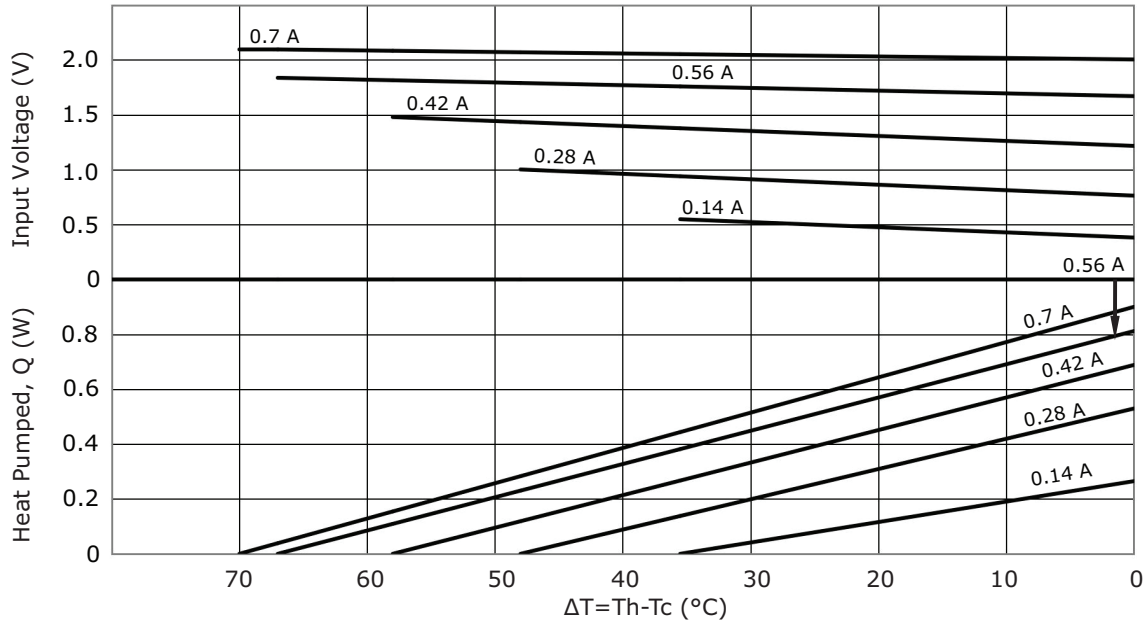
CP074933-277P PERFORMANCE (Th=27°C)



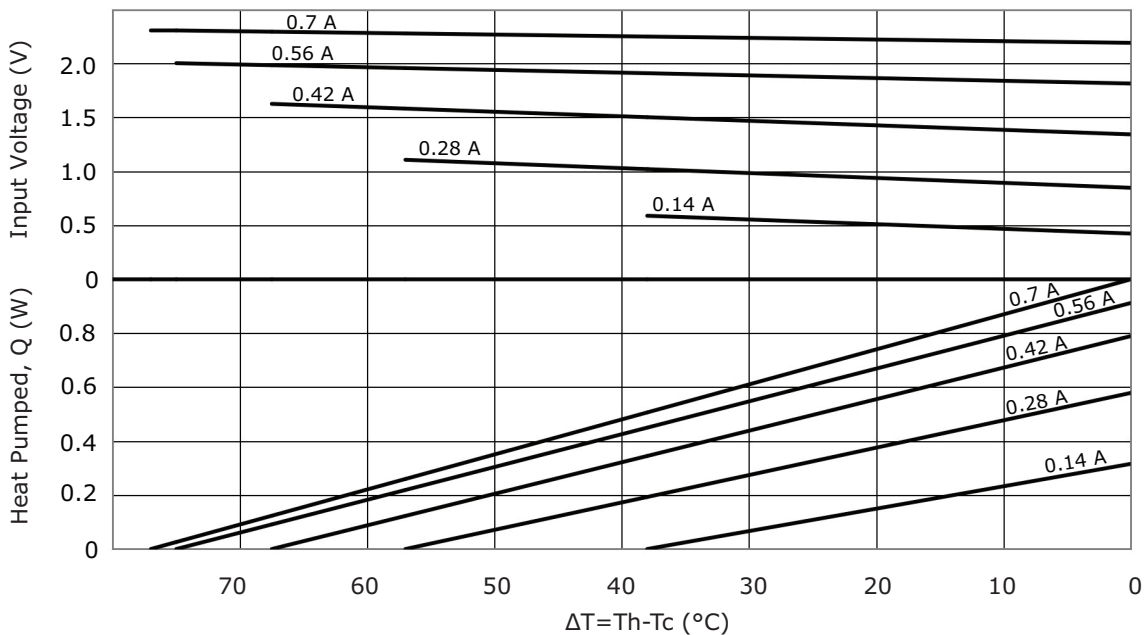
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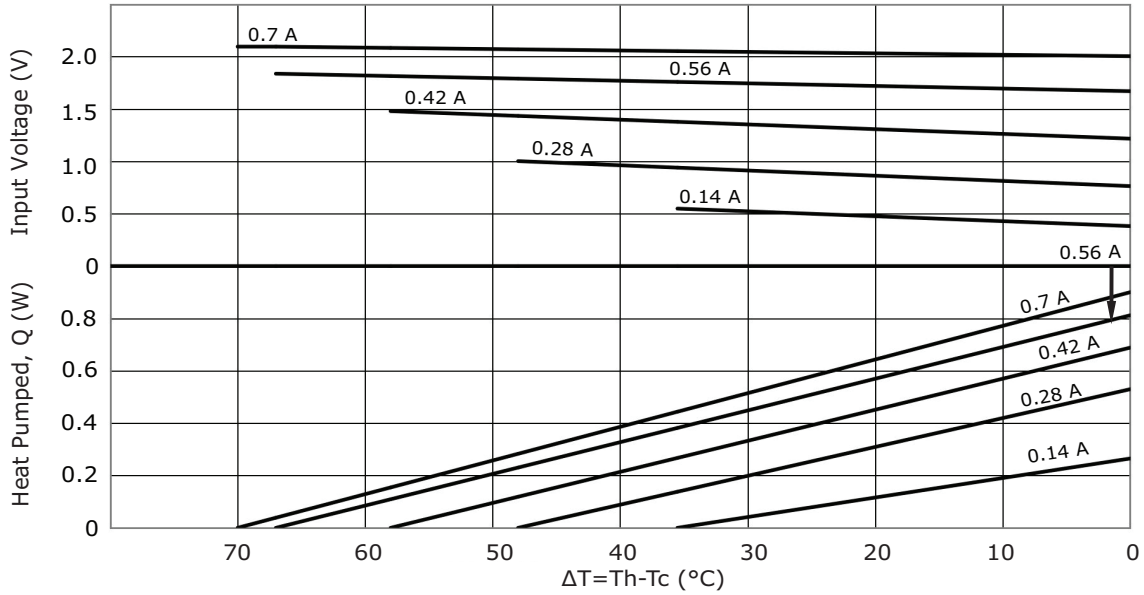
CP074965-239 PERFORMANCE (Th=27°C)



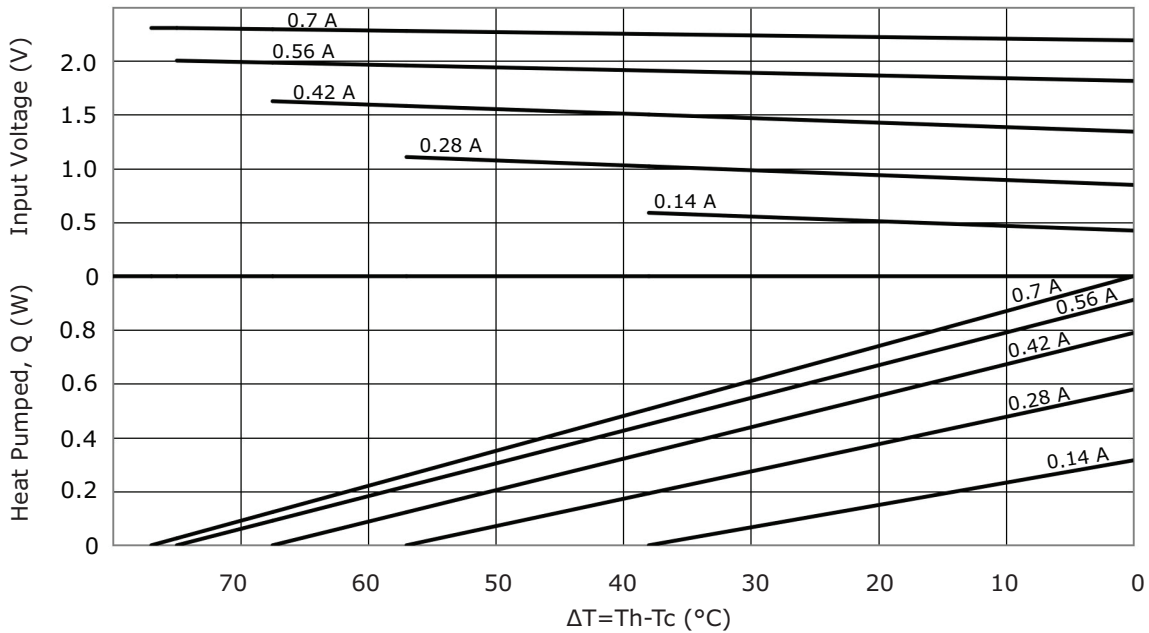
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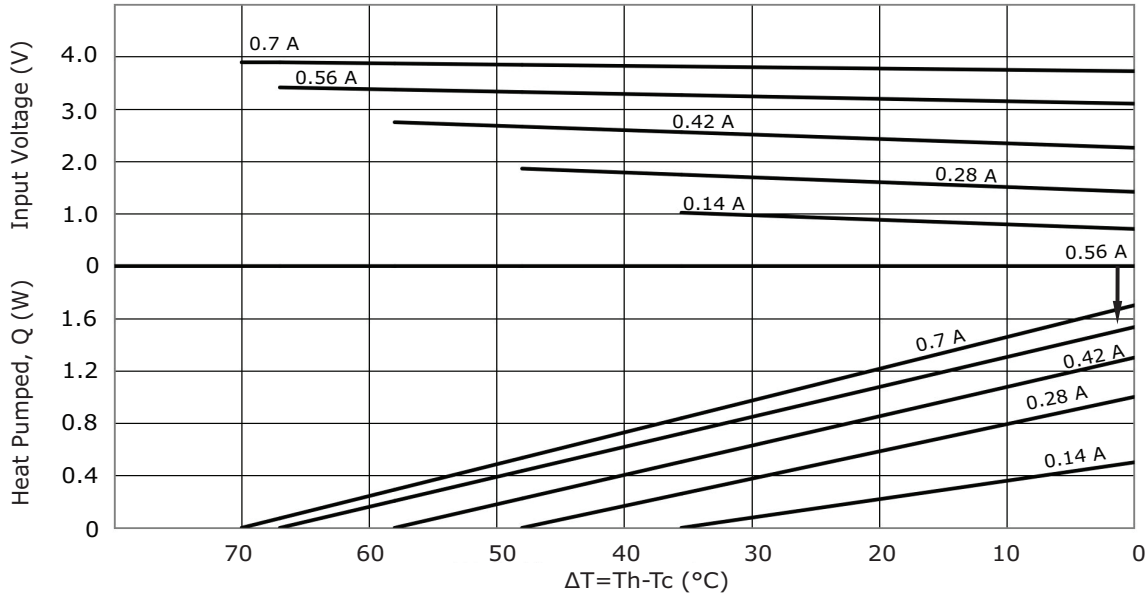
CP074965-238P PERFORMANCE (Th=27°C)



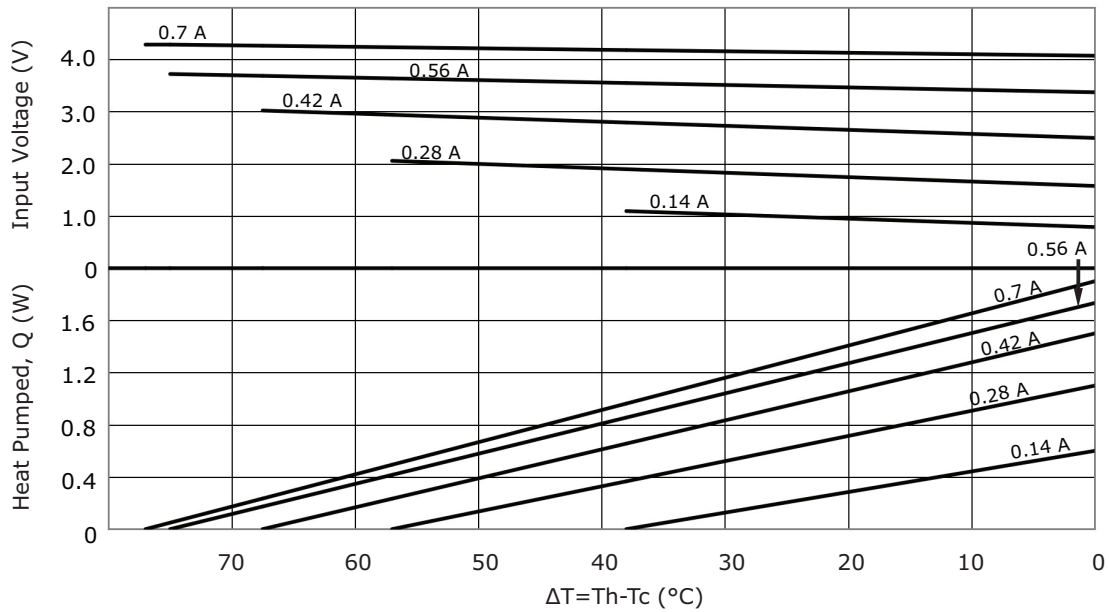
CP074965-238P PERFORMANCE (Th=50°C)



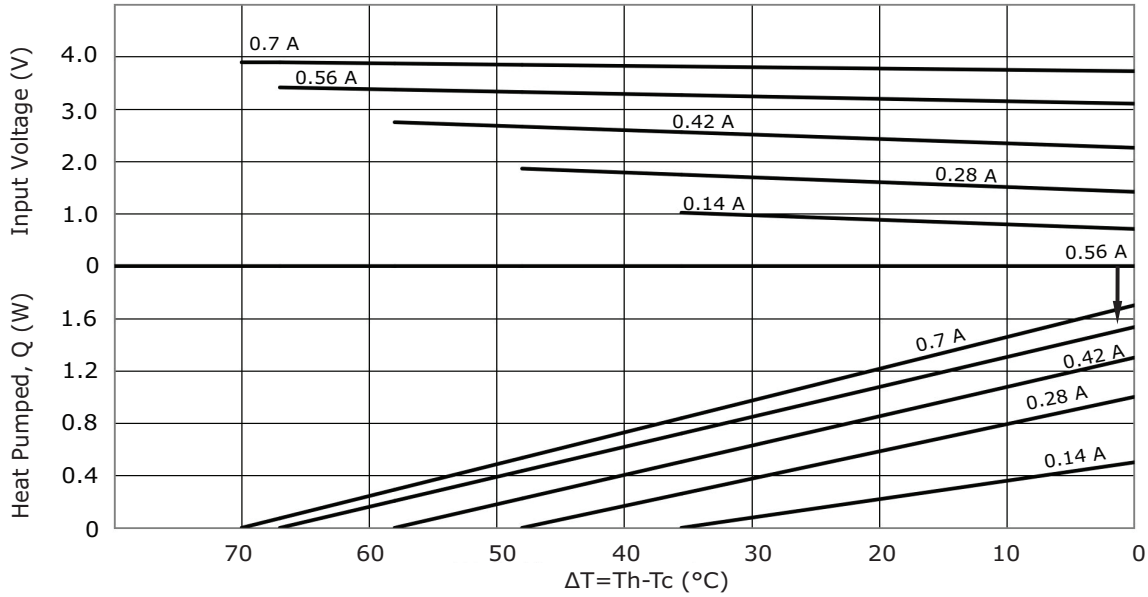
CP076581-238 PERFORMANCE (Th=27°C)



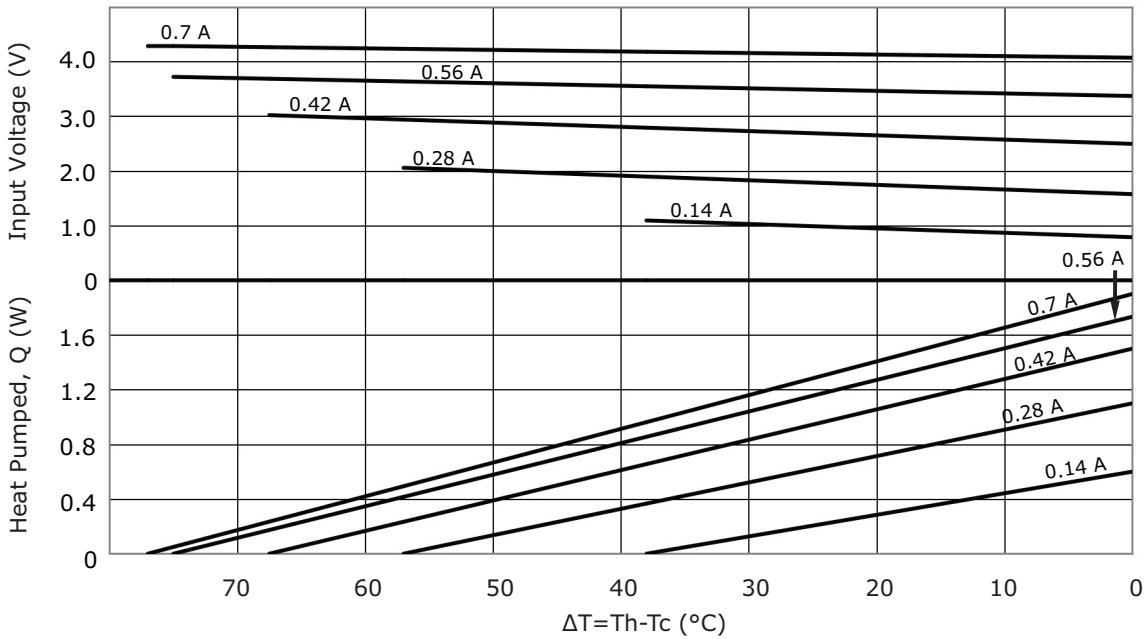
CP076581-238 PERFORMANCE (Th=50°C)



CP076581-238P PERFORMANCE (Th=27°C)



CP076581-238P PERFORMANCE (Th=50°C)



REVISION HISTORY

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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