



SERIES:

CP07-M

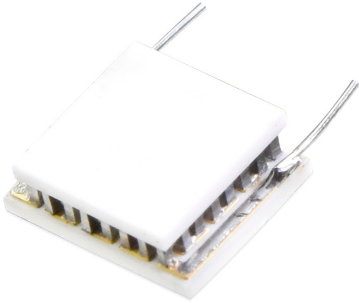
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DESCRIPTION:

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

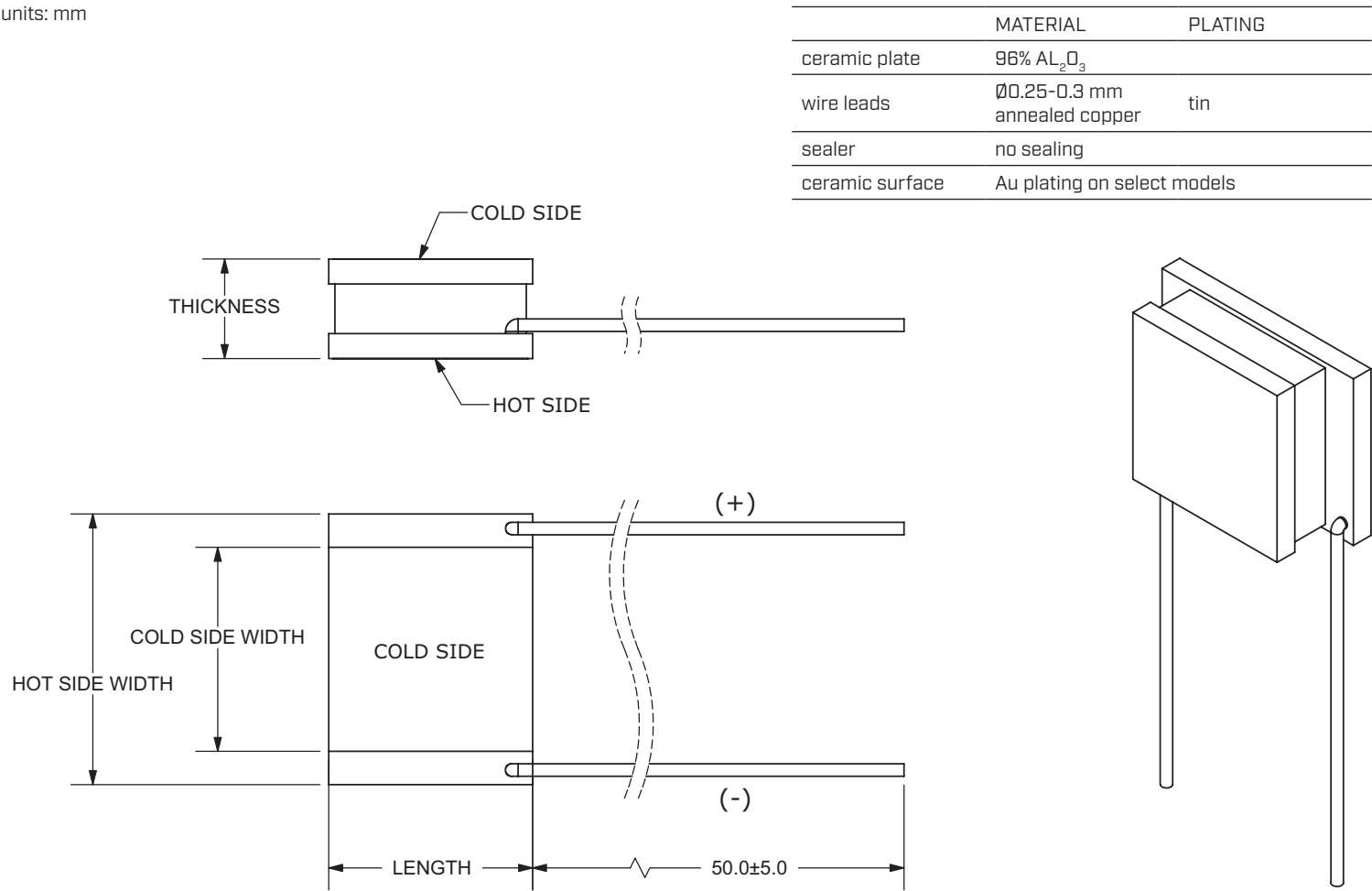
parameter	conditions/description	min	typ	max	units
soldering to plates	soldering iron temperature			150	$^{\circ}\text{C}$

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

SPECIFICATIONS

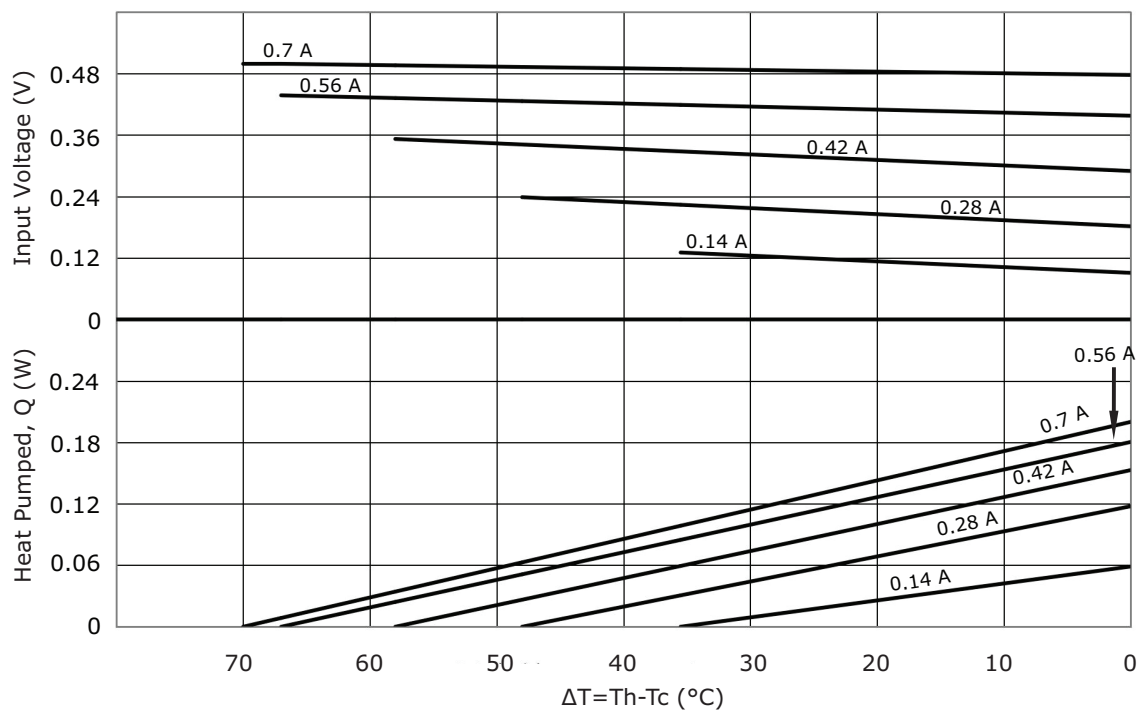
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

MECHANICAL DRAWING

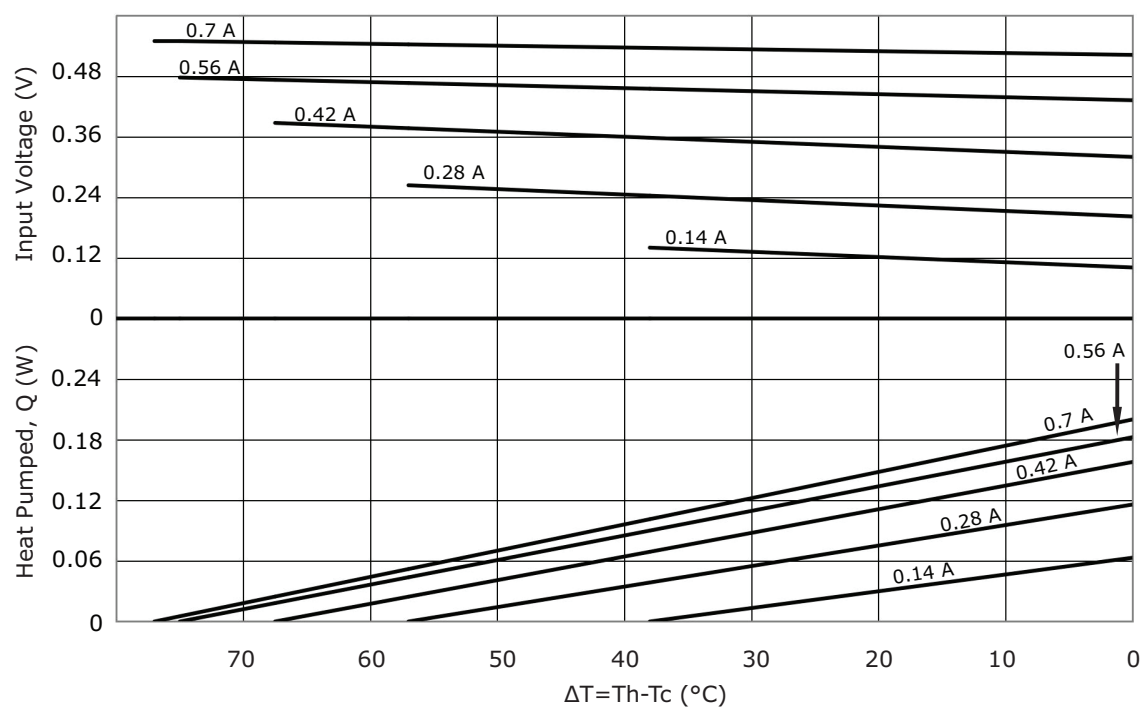


MODEL NO.	LENGTH [mm]	HOT SIDE WIDTH [mm]	COLD SIDE WIDTH [mm]	THICKNESS [mm]	GOLD PLATING HOT/ COLD SIDES
CP0734-238	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.38 ±0.15	NO
CP0734-277P	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.77 ±0.15	YES
CP073450-238	3.4 ±0.3	5.0 ±0.3	3.4 ±0.3	2.38 ±0.15	NO
CP074933-238	4.9 ±0.3	3.3 ±0.3	3.3 ±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

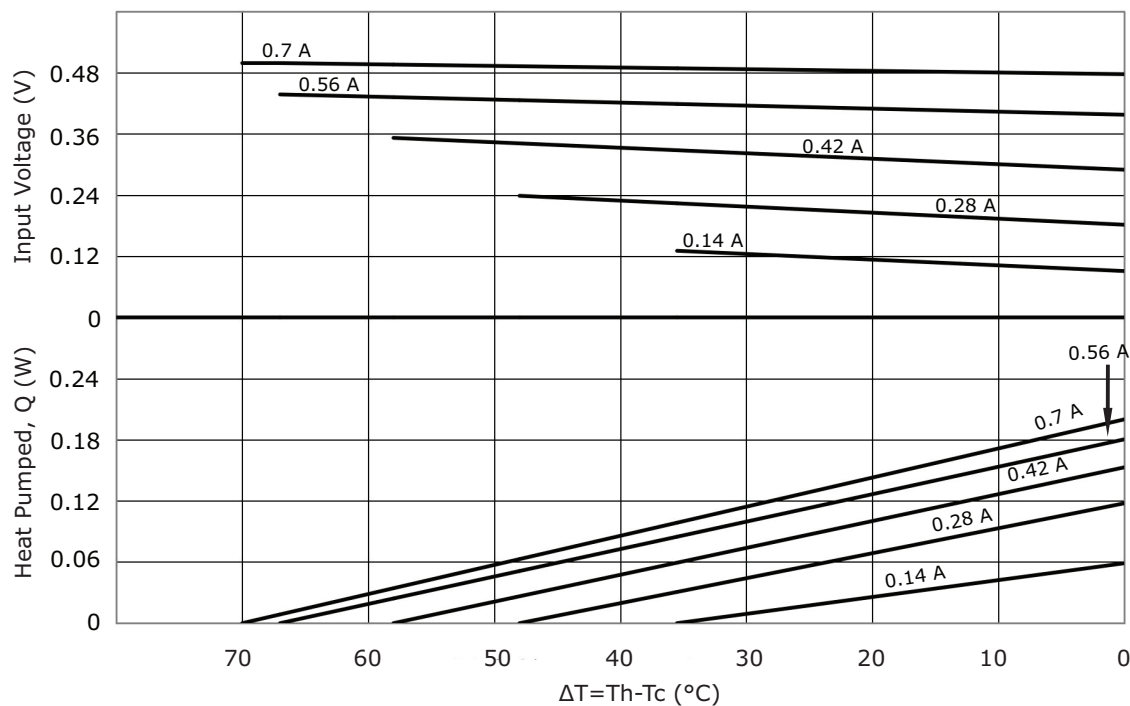
CP0734-238 PERFORMANCE (Th=27°C)



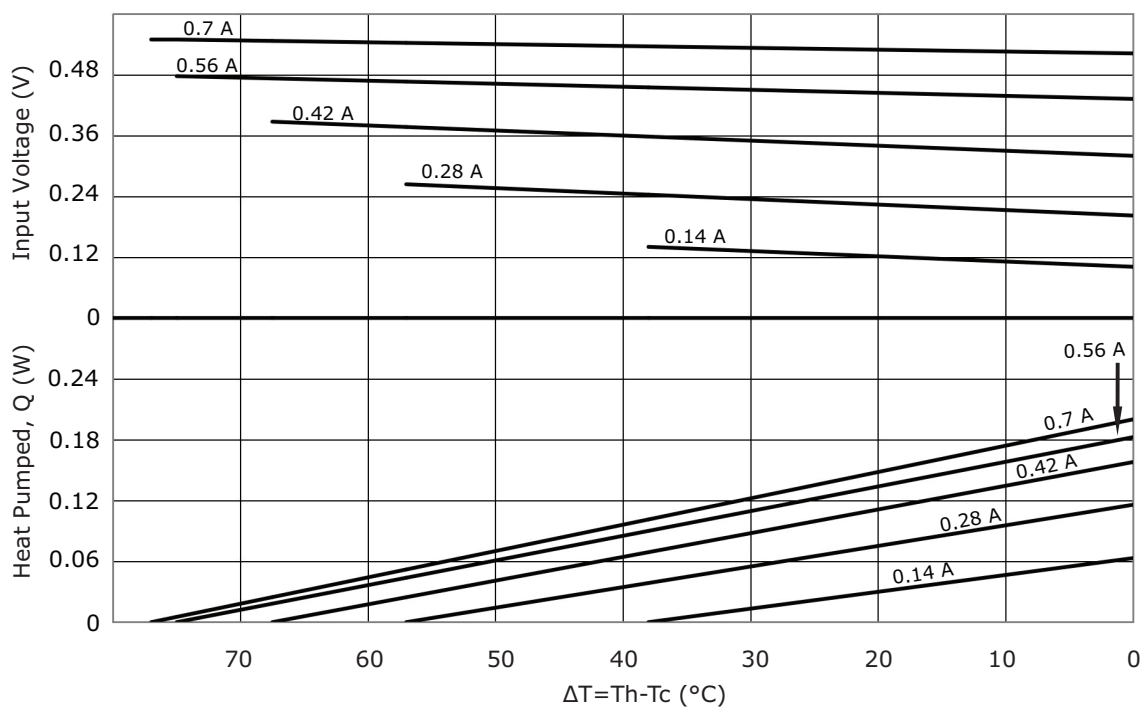
CP0734-238 PERFORMANCE (Th=50°C)



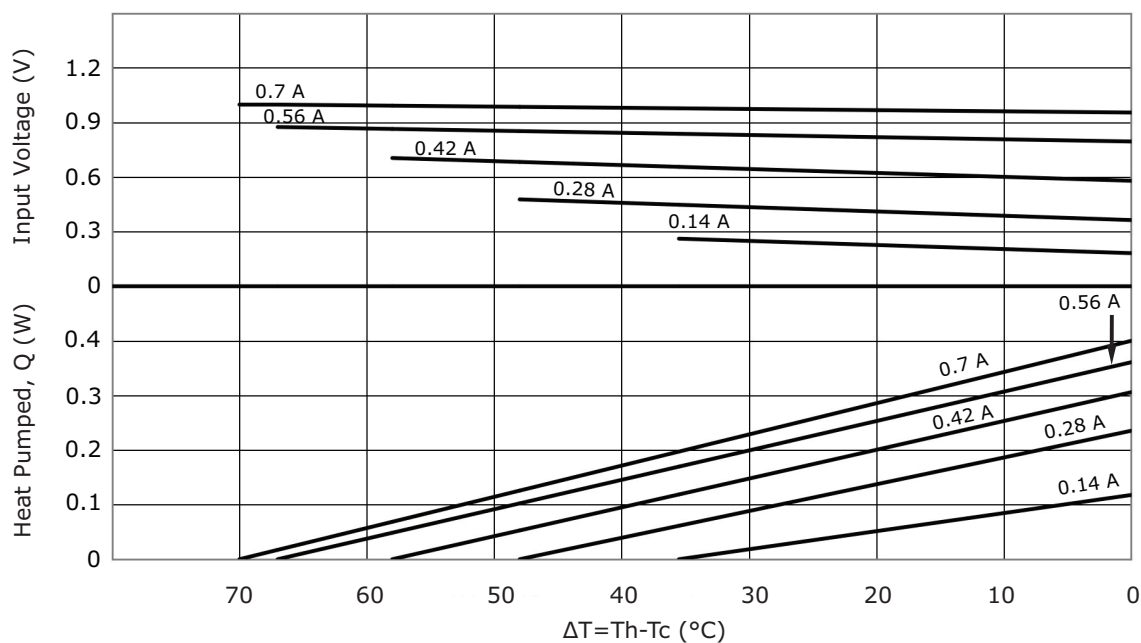
CP0734-277P PERFORMANCE (Th=27°C)



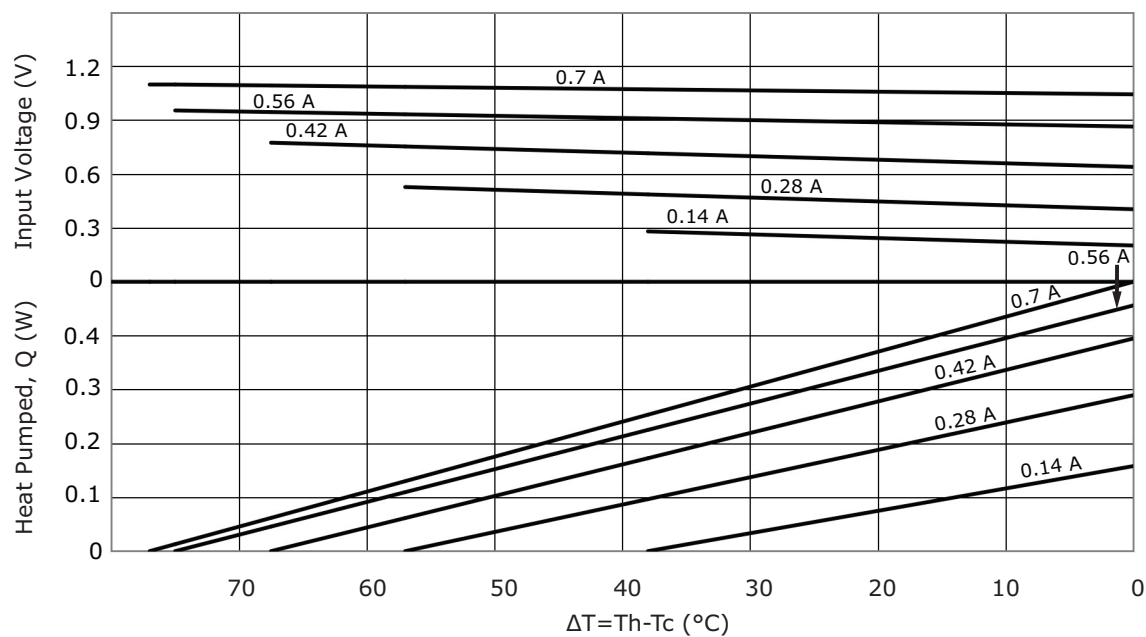
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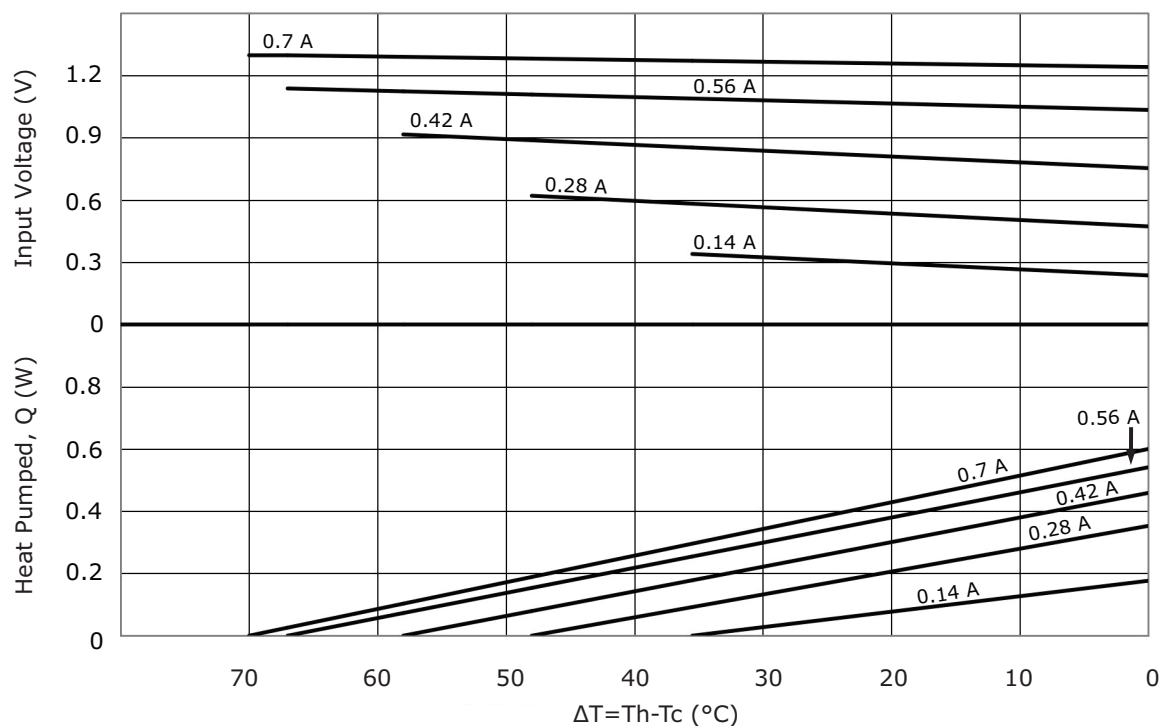
CP073450-238 PERFORMANCE (Th=27°C)



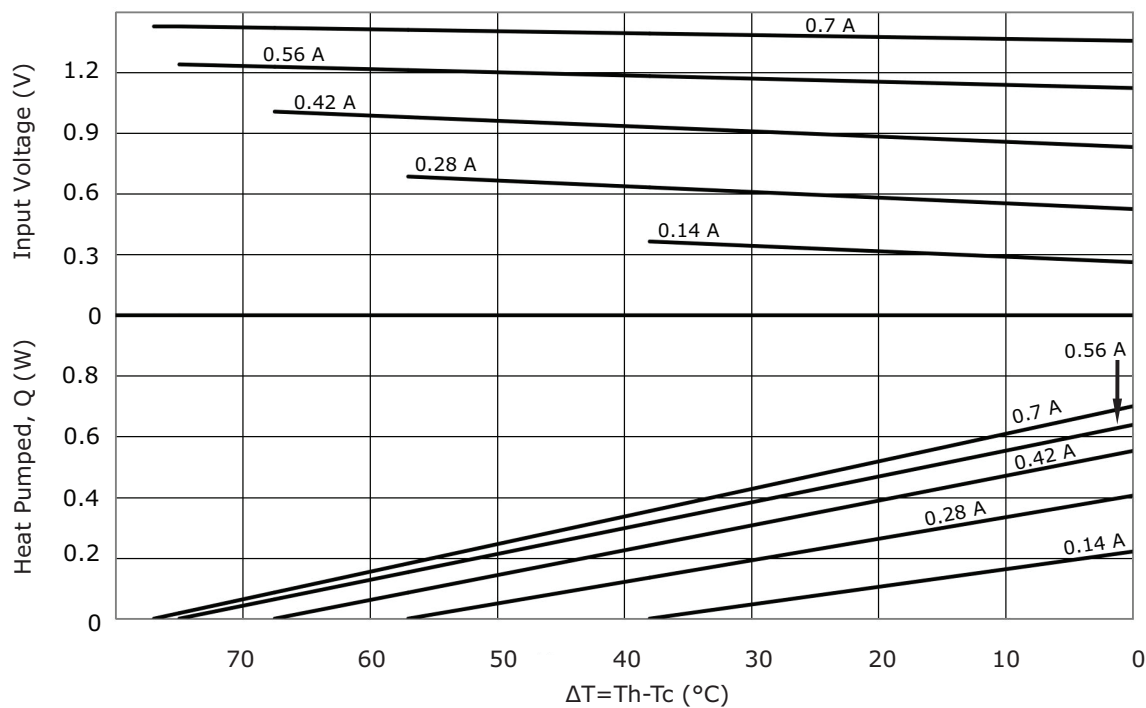
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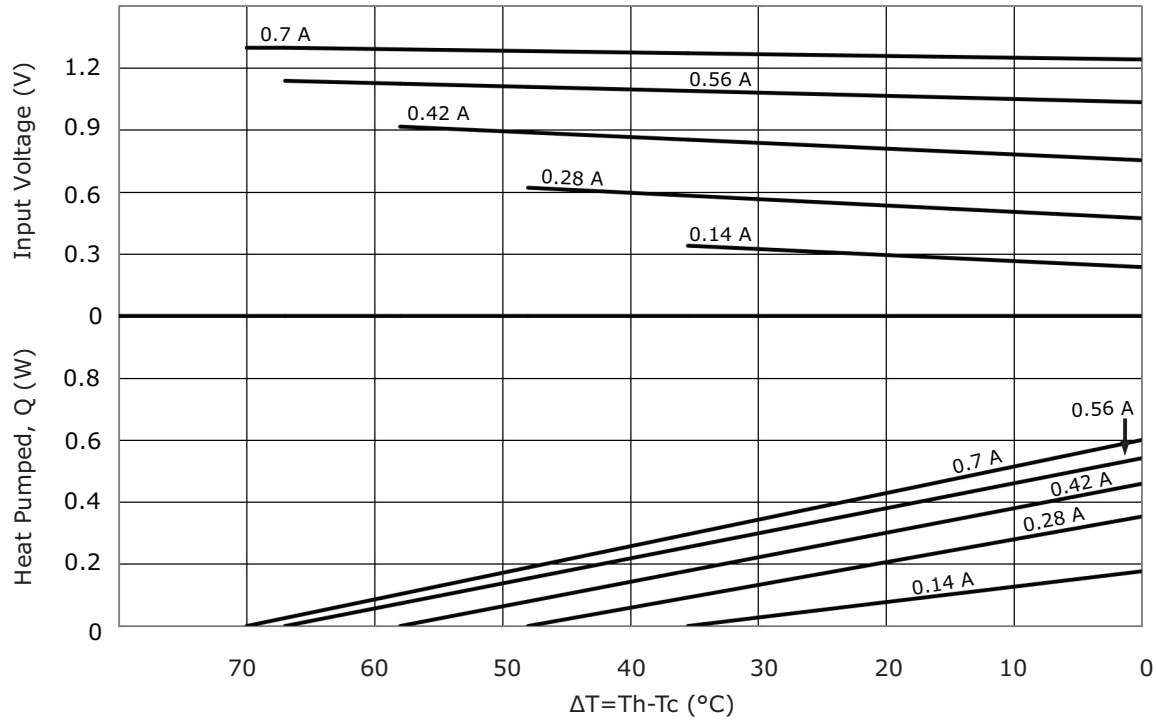
CP074933-238 PERFORMANCE (Th=27°C)



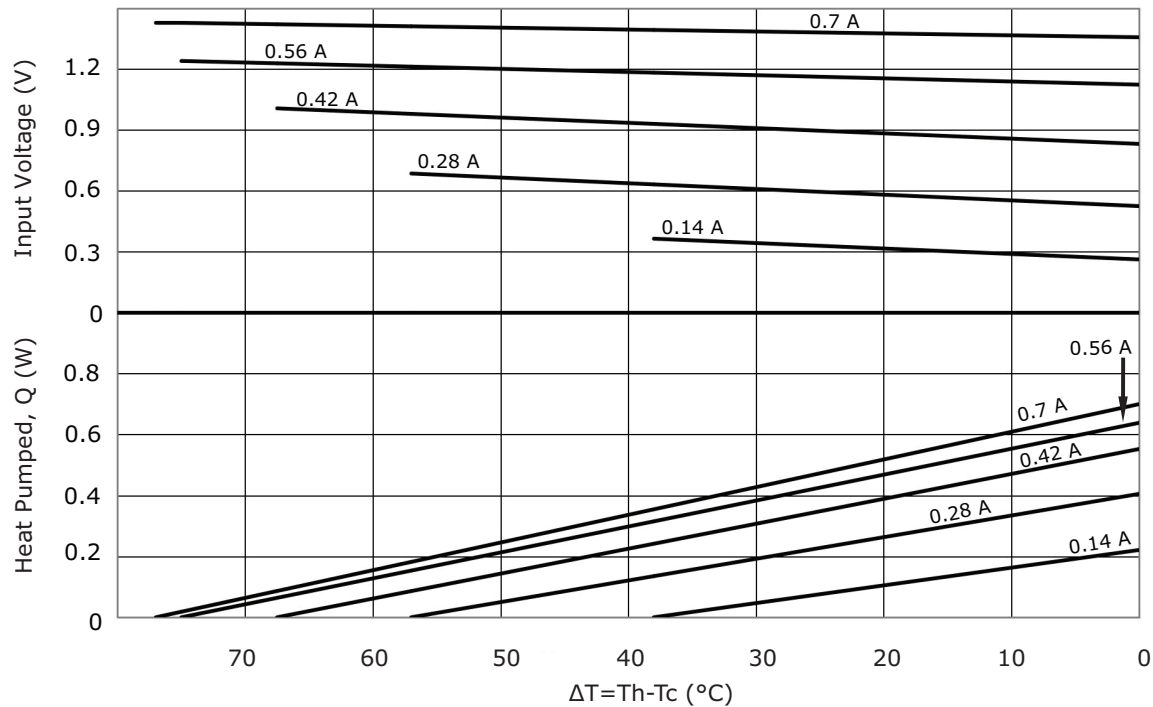
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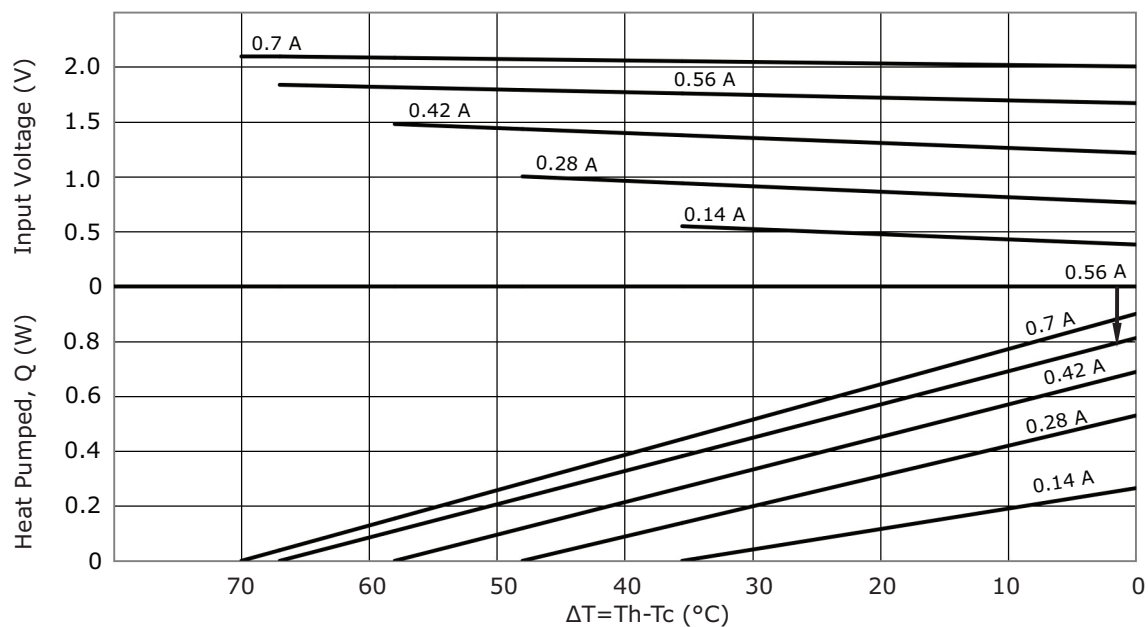
CP074933-277P PERFORMANCE (Th=27°C)



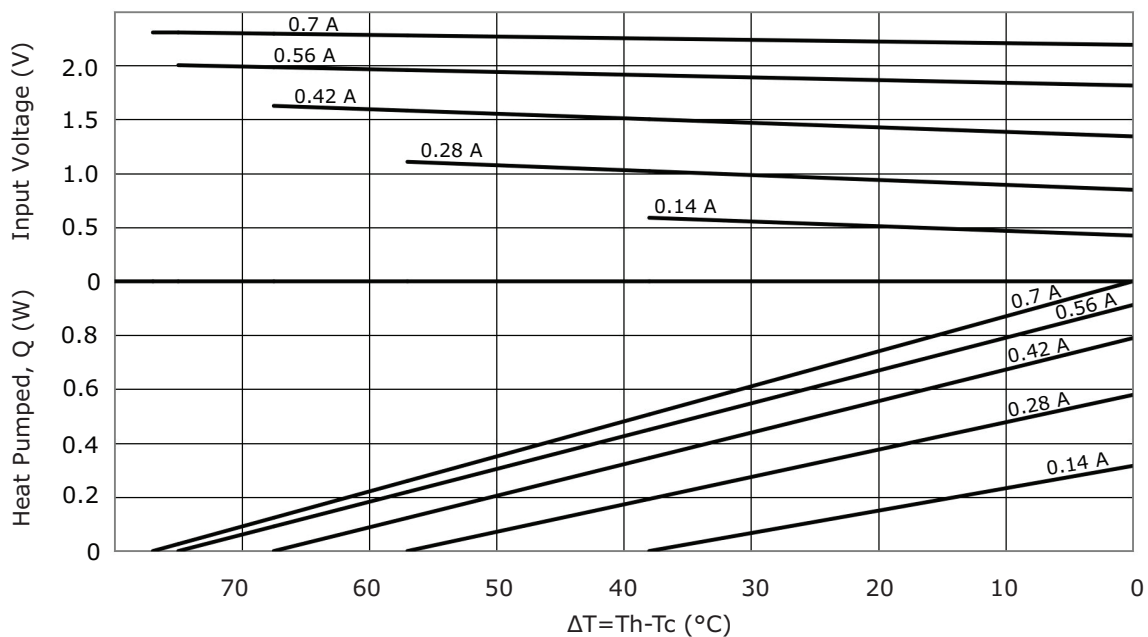
CP074933-277P PERFORMANCE (Th=50°C)



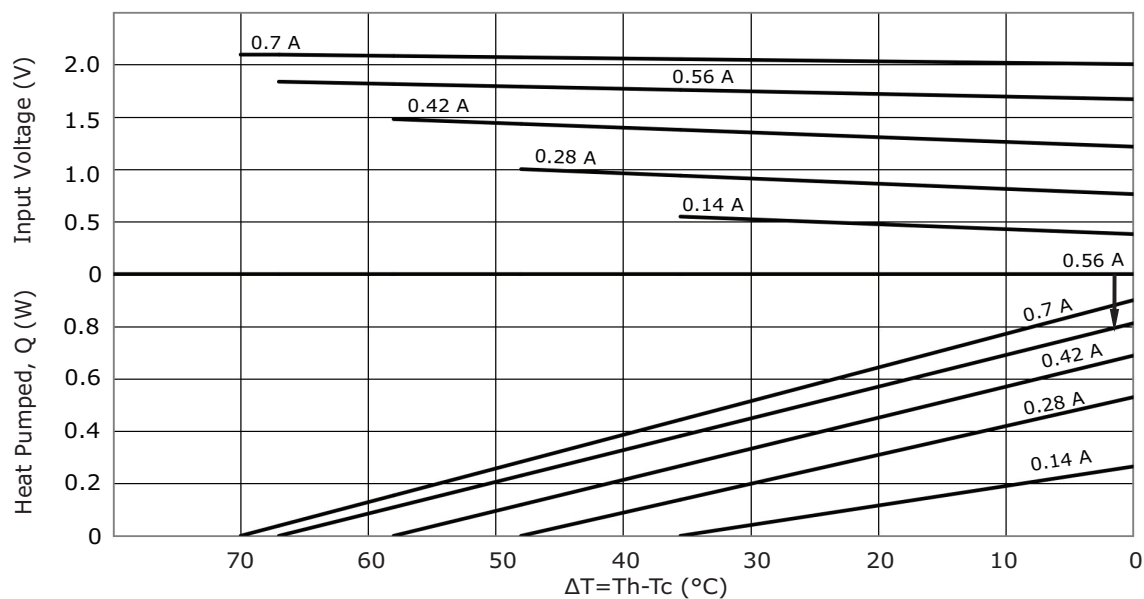
CP074965-239 PERFORMANCE (Th=27°C)



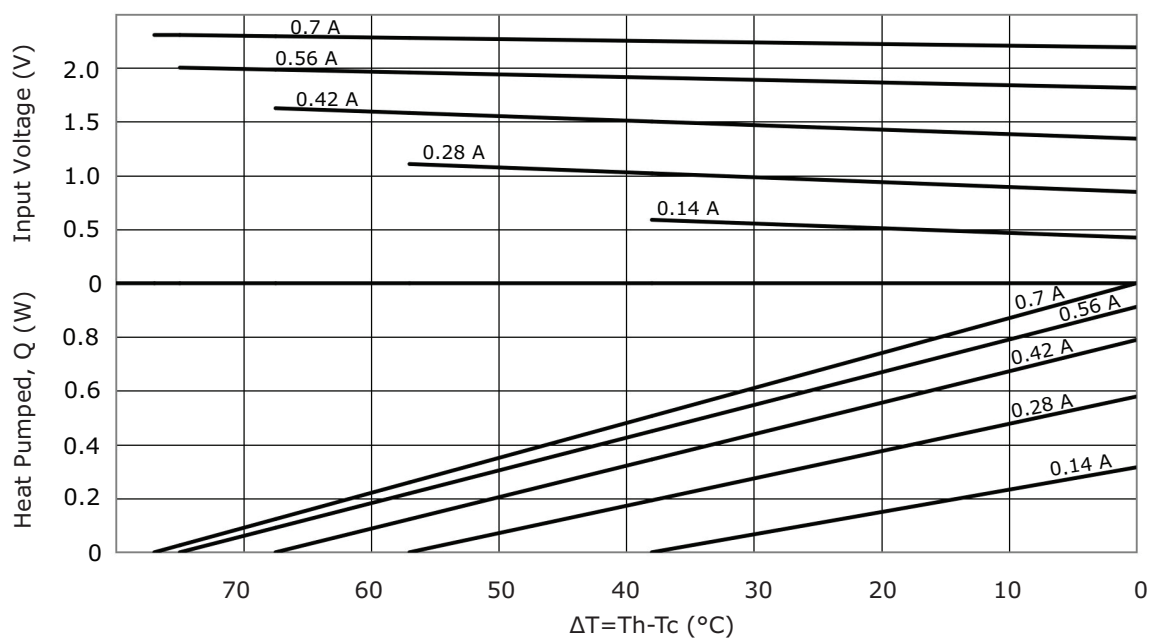
CP074965-239 PERFORMANCE (Th=50°C)



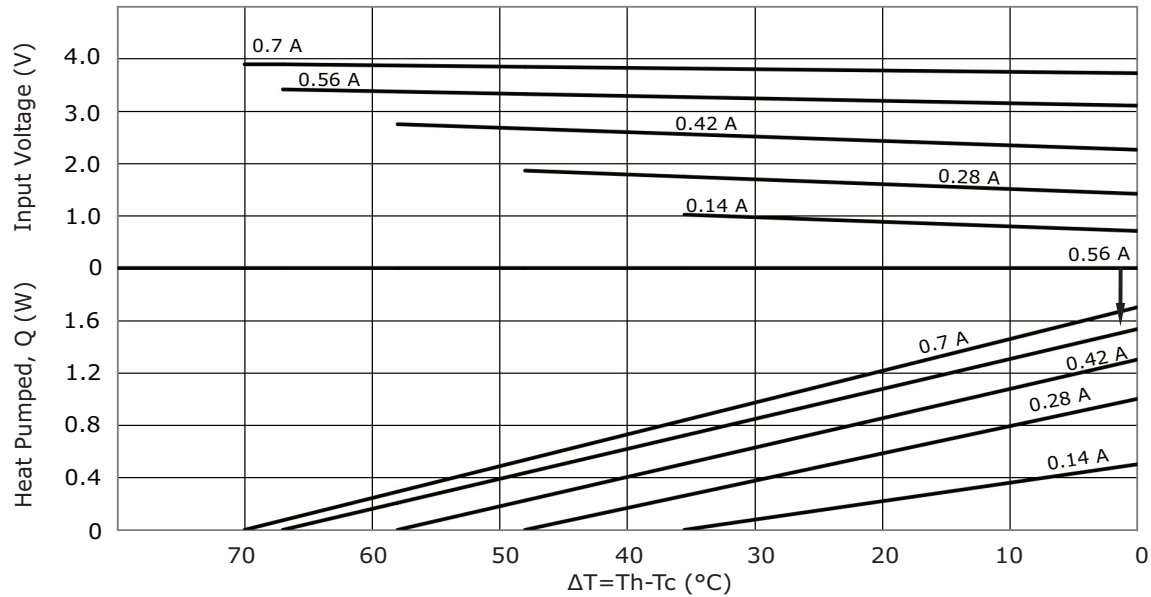
CP074965-238P PERFORMANCE (Th=27°C)



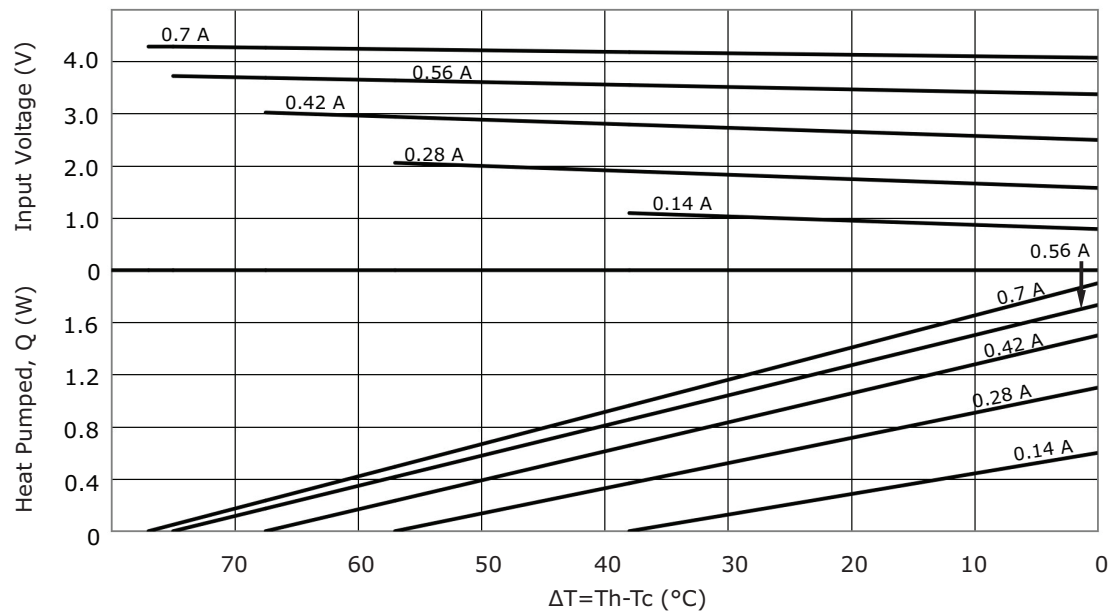
CP074965-238P PERFORMANCE (Th=50°C)



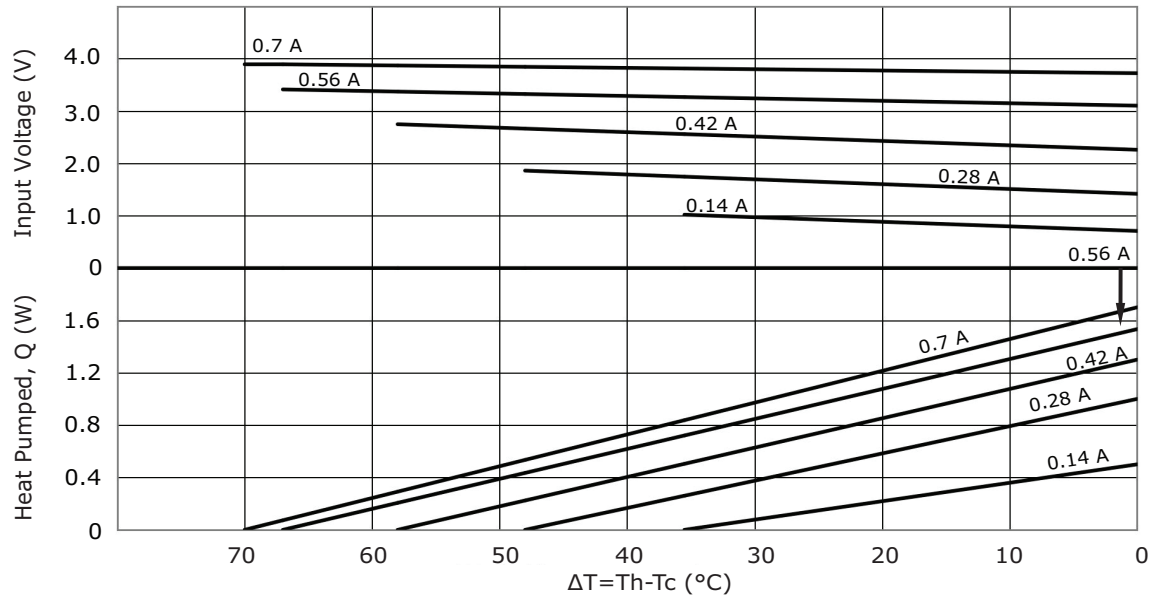
CP076581-238 PERFORMANCE (Th=27°C)



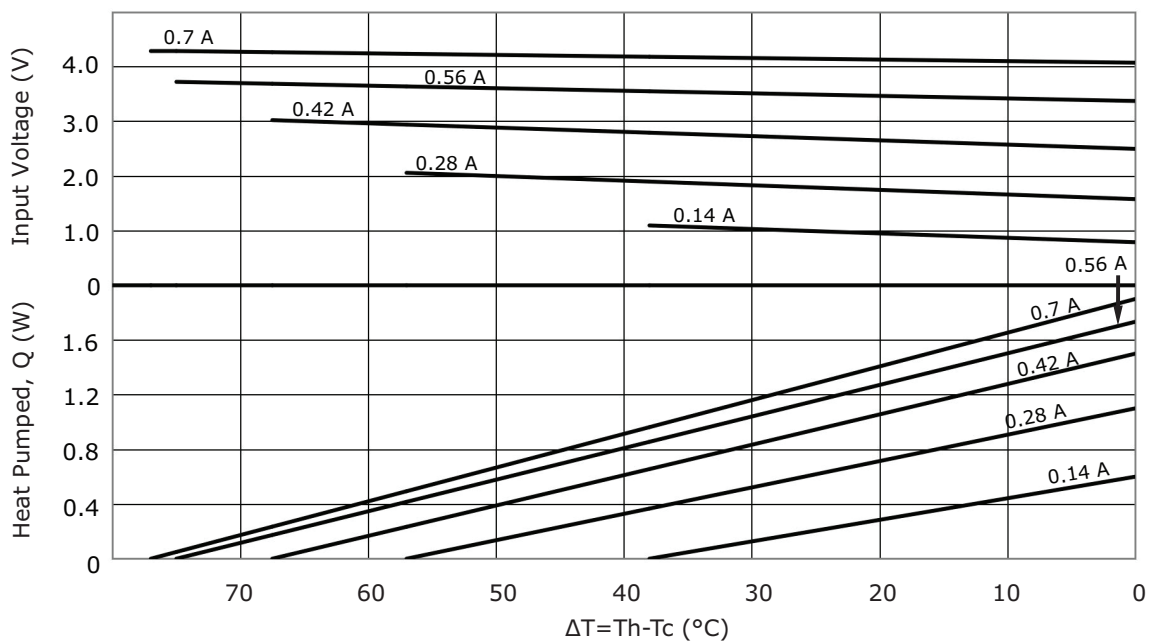
CP076581-238 PERFORMANCE (Th=50°C)



CP076581-238P PERFORMANCE (Th=27°C)



CP076581-238P PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	07/08/2020
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024

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



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

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

Same Sky 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.

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