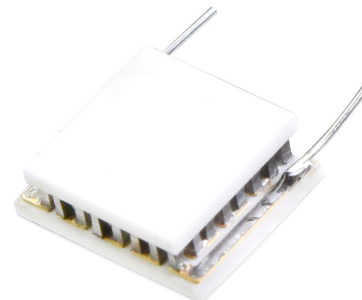


SERIES: CP07-M | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- 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	$^\circ\text{C}$

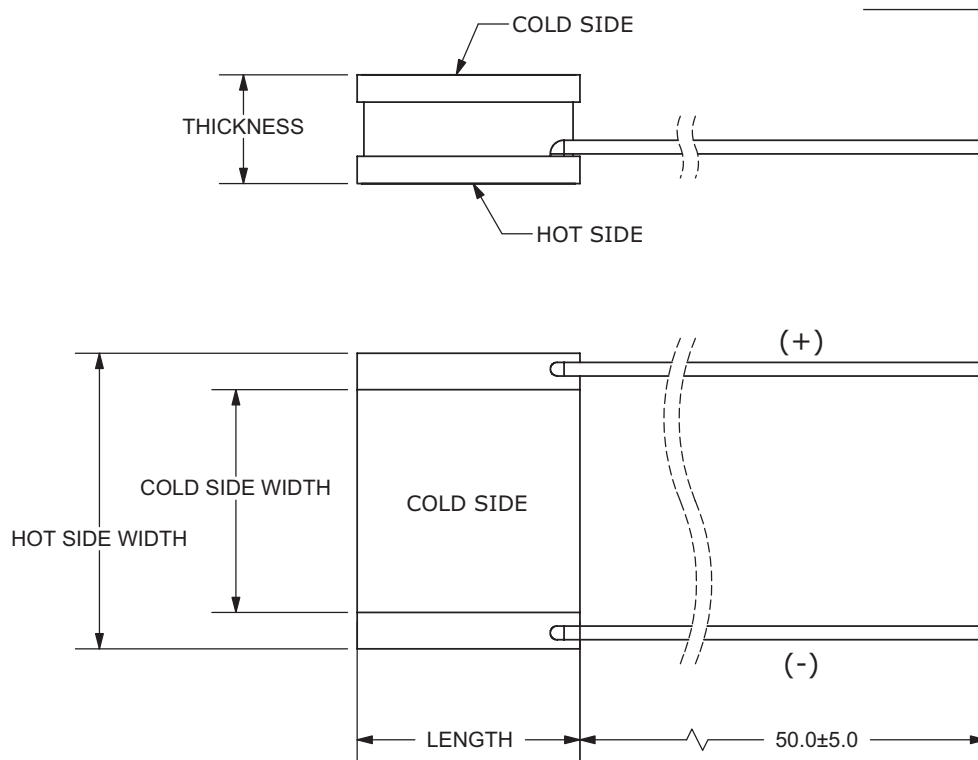
Note: 7. Only for gold plated models. The solder that holds the peltier together melts at 235°C . Caution must taken to not leave the soldering iron in contact with the surface too long, or damage to the peltier could occur.

SPECIFICATIONS

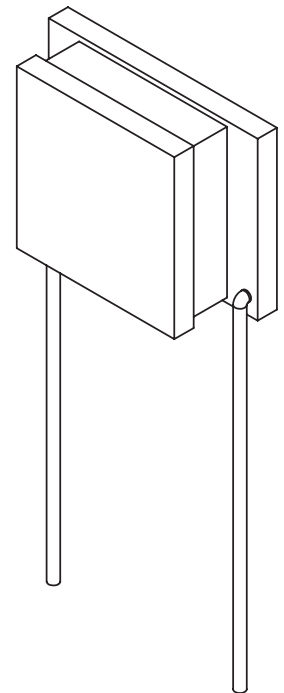
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

MECHANICAL DRAWING

units: mm

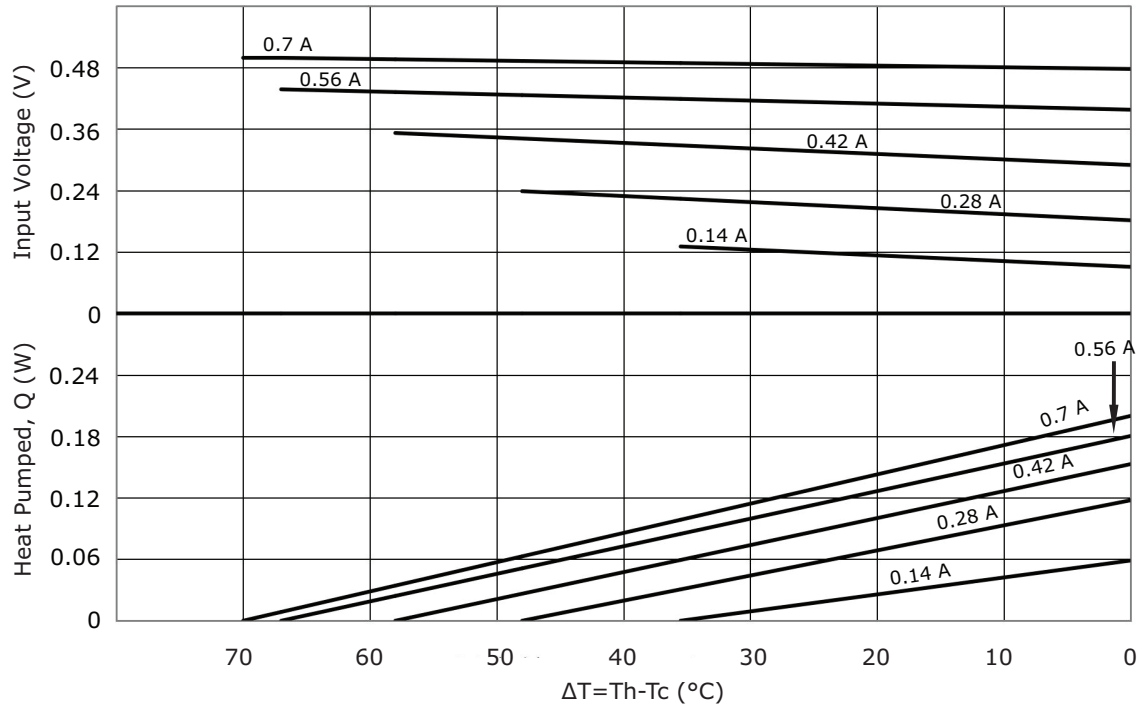


	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	Ø0.25-0.3 mm annealed copper	tin
sealer	no sealing	
ceramic surface	Au plating on select models	

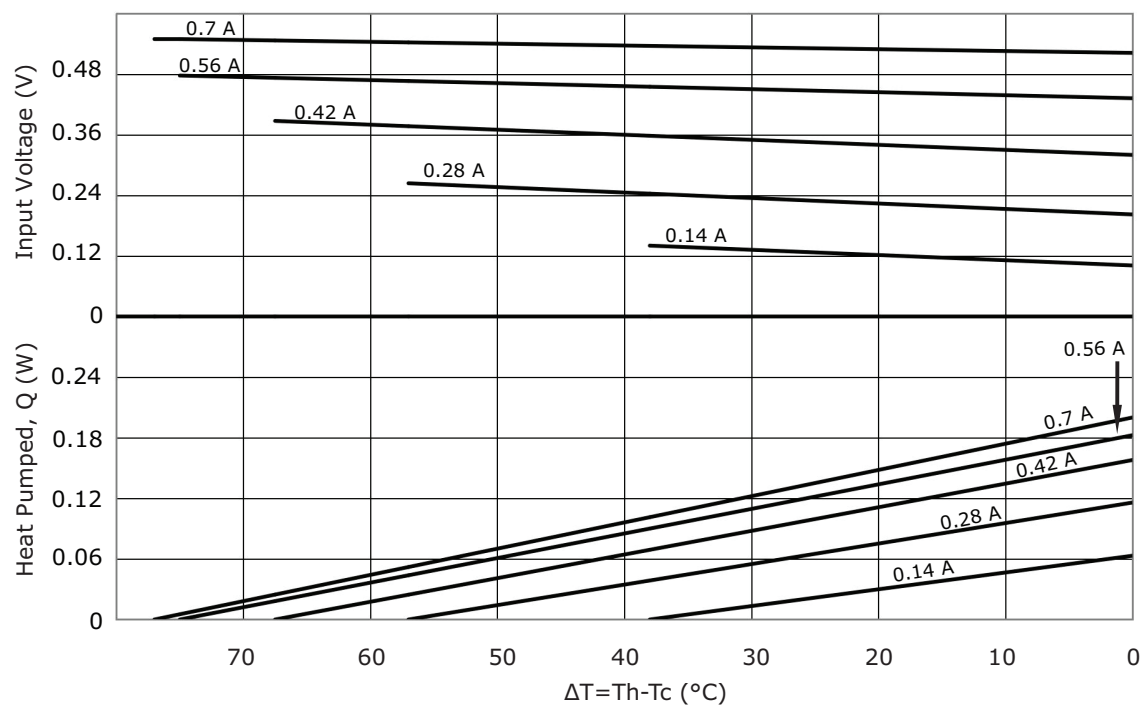


MODEL NO.	LENGTH [mm]	HOT SIDE WIDTH [mm]	COLD SIDE WIDTH [mm]	THICKNESS [mm]	GOLD PLATING HOT/ COLD SIDES
CP0734-238	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.38 ±0.15	NO
CP0734-277P	3.4 ±0.3	3.4 ±0.3	1.8 ±0.3	2.77 ±0.15	YES
CP073450-238	3.4 ±0.3	5.0 ±0.3	3.4 ±0.3	2.38 ±0.15	NO
CP074933-238	4.9 ±0.3	3.3 ±0.3	3.3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

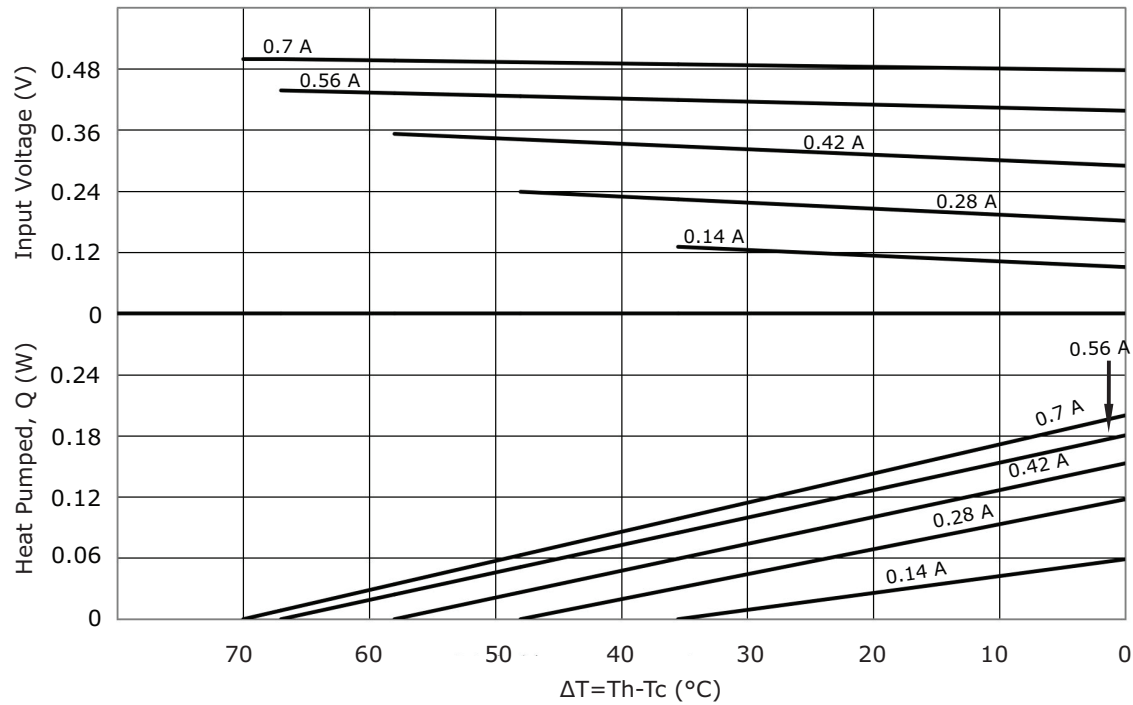
CP0734-238 PERFORMANCE (Th=27°C)



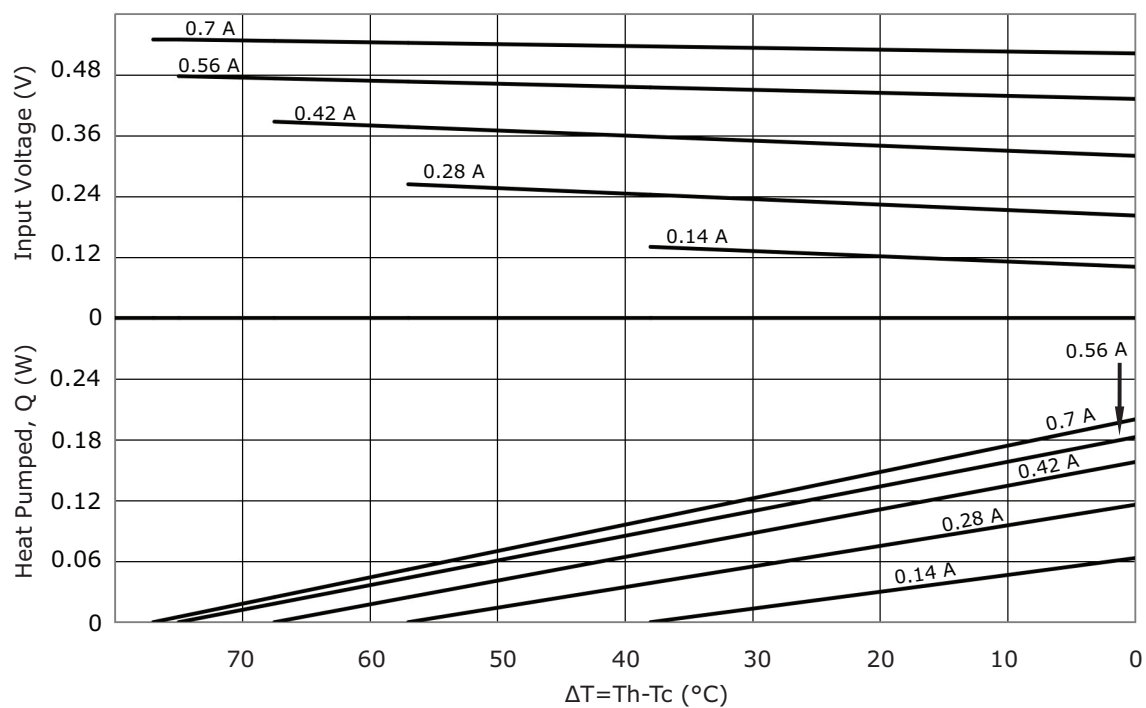
CP0734-238 PERFORMANCE (Th=50°C)



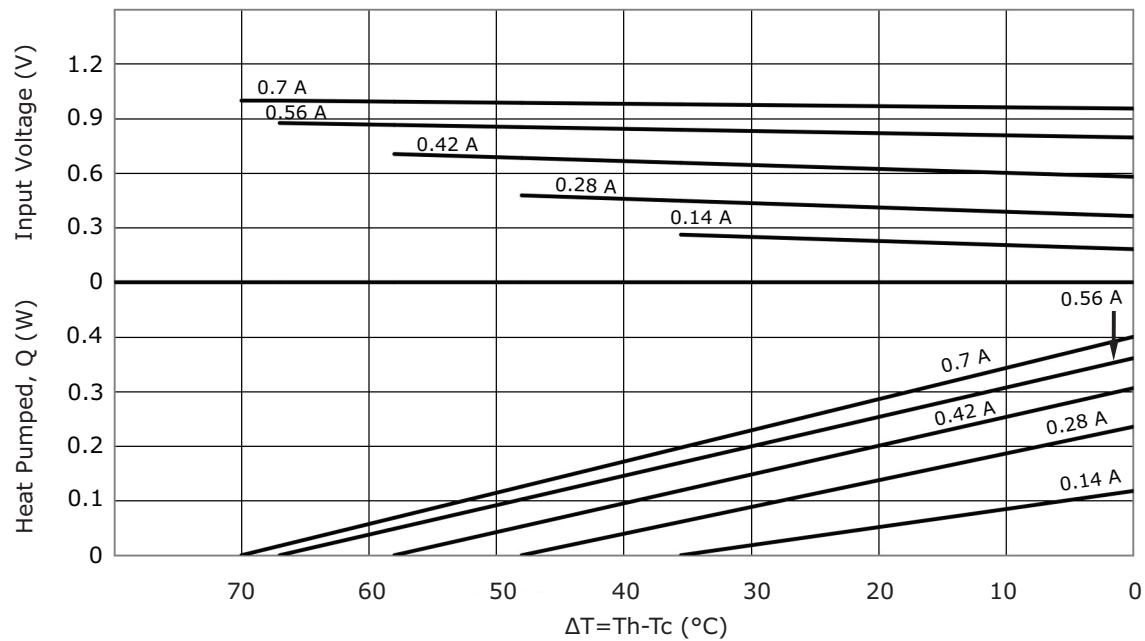
CP0734-277P PERFORMANCE (Th=27°C)



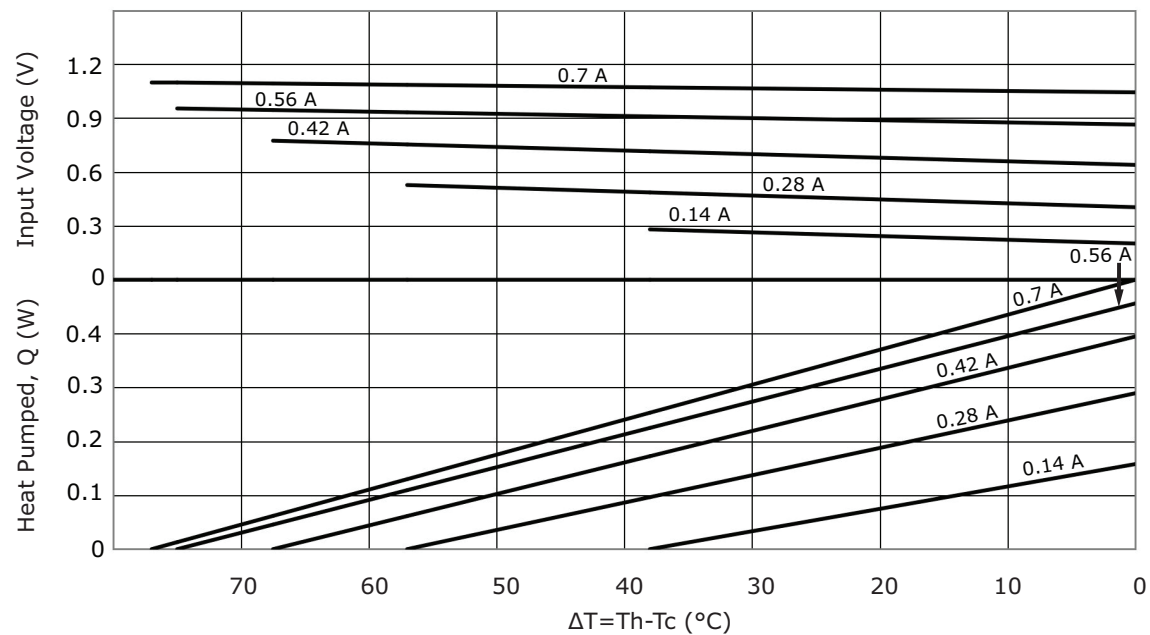
CP0734-277P PERFORMANCE (Th=50°C)



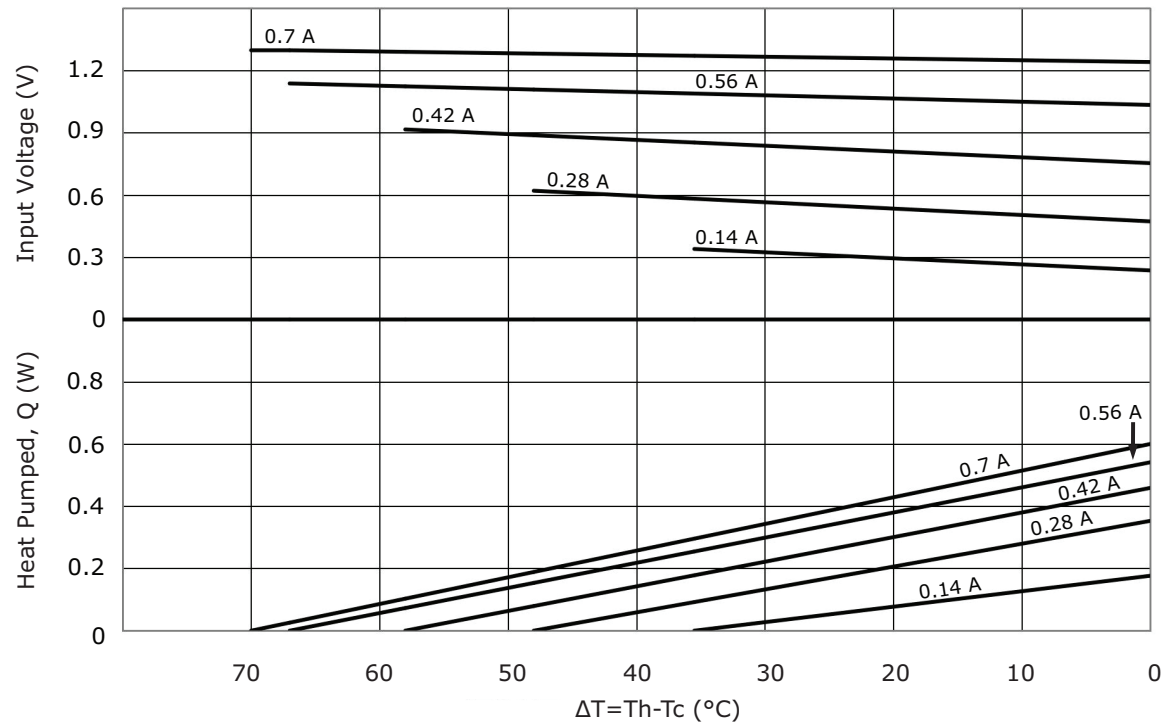
CP073450-238 PERFORMANCE (Th=27°C)



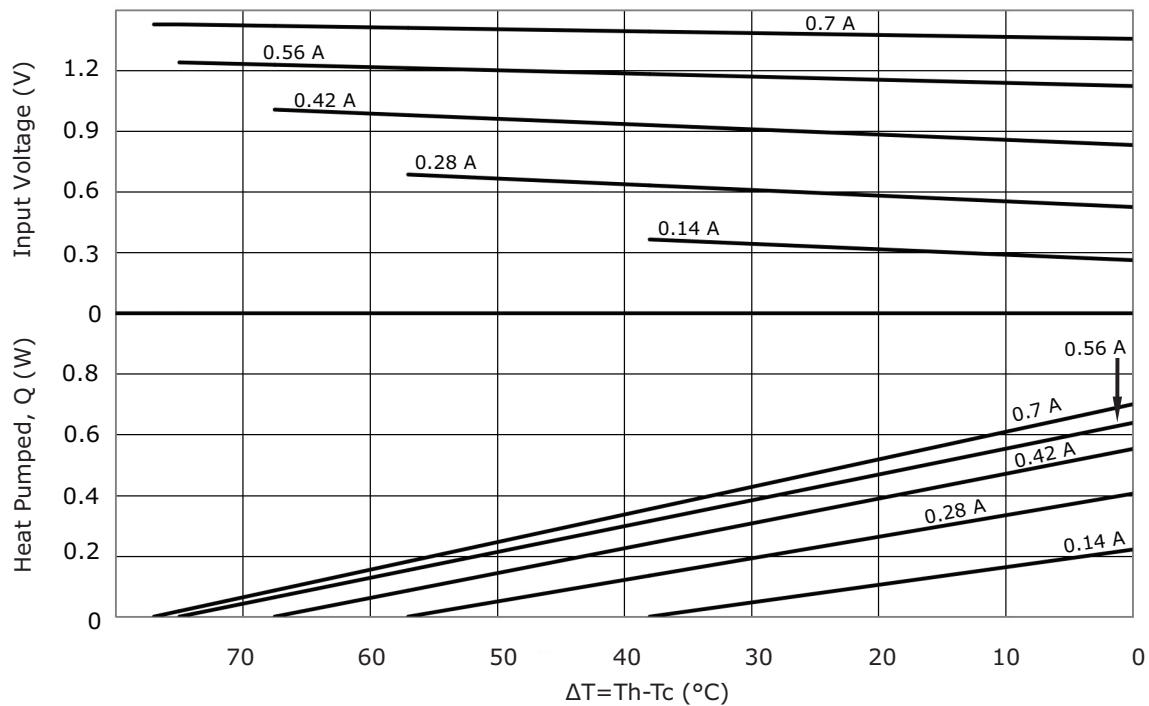
CP073450-238 PERFORMANCE (Th=50°C)



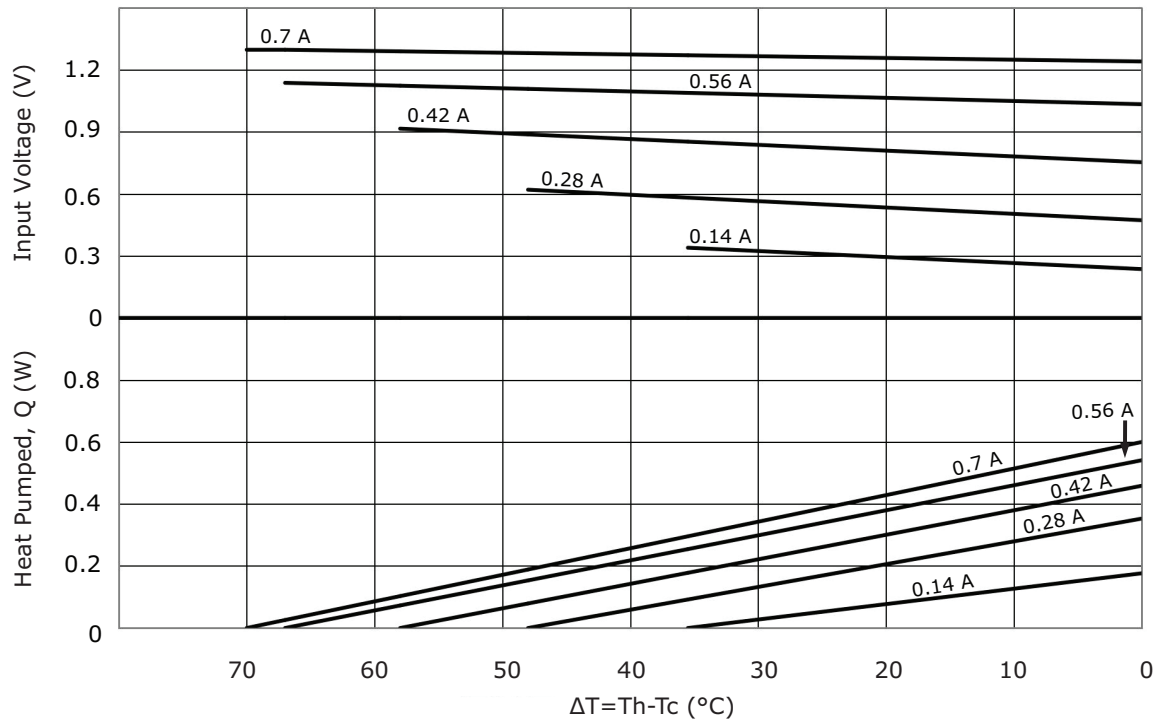
CP074933-238 PERFORMANCE (Th=27°C)



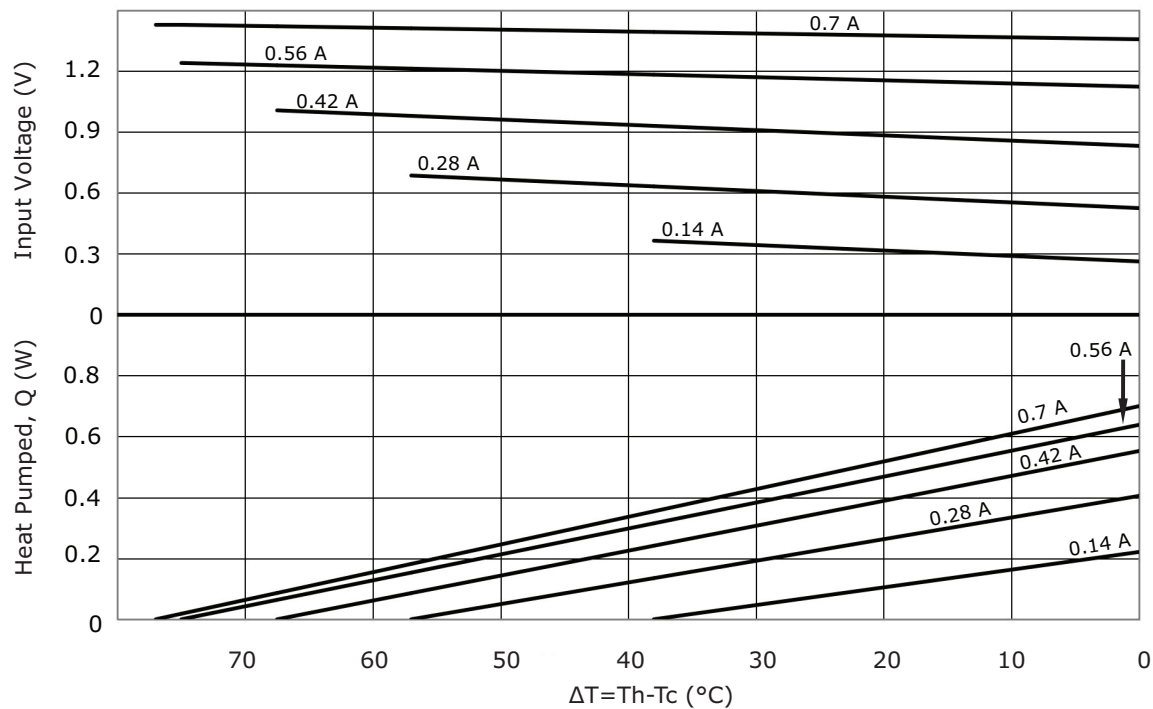
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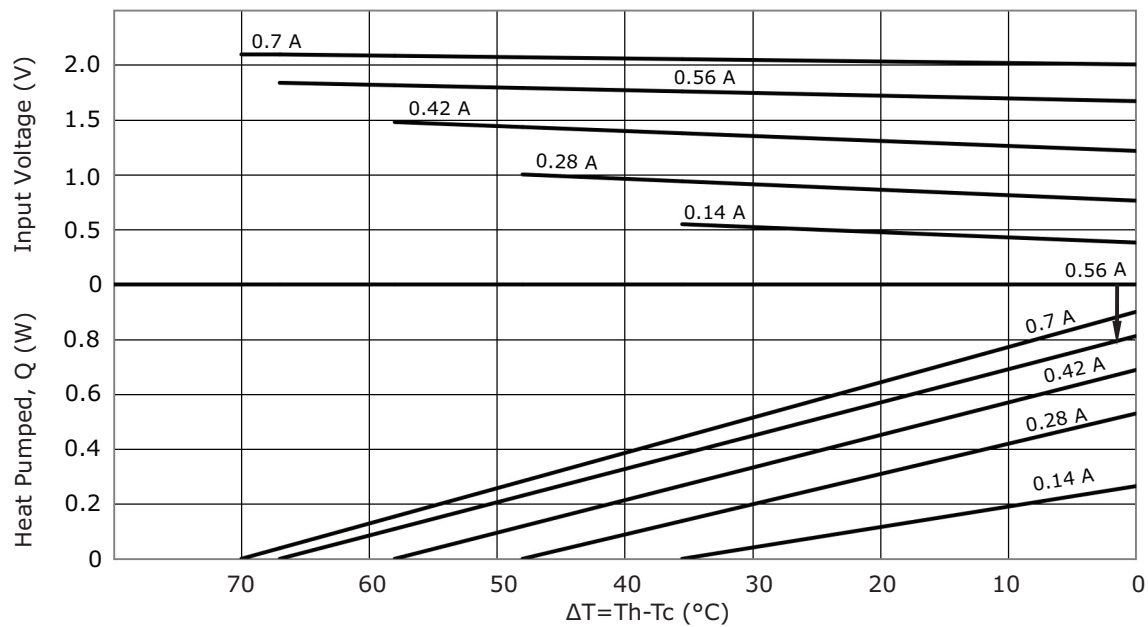
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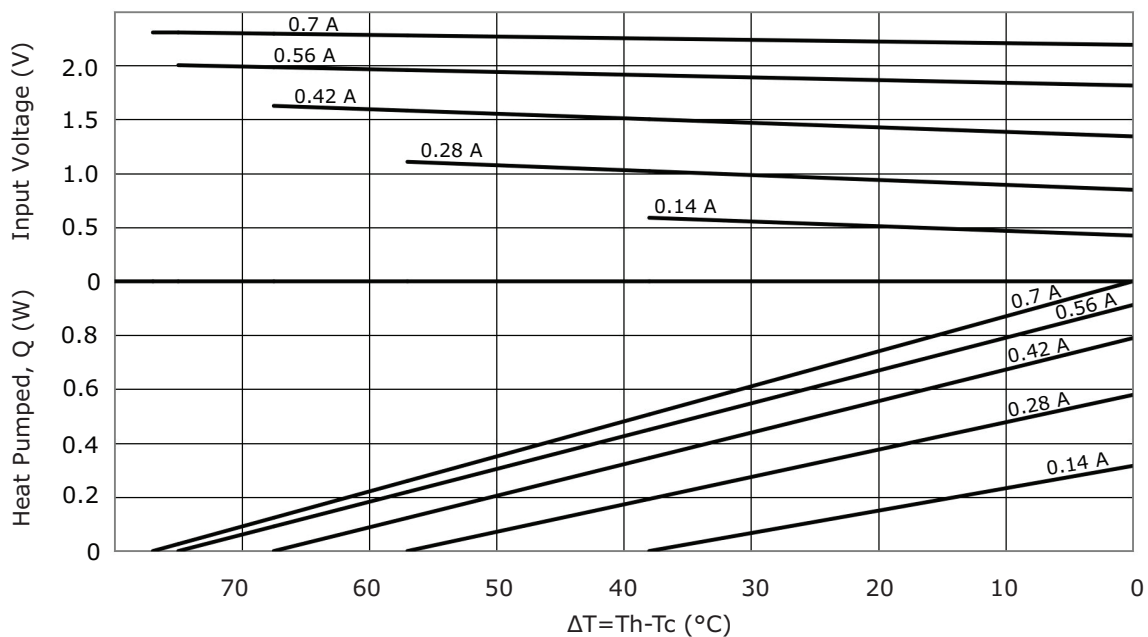
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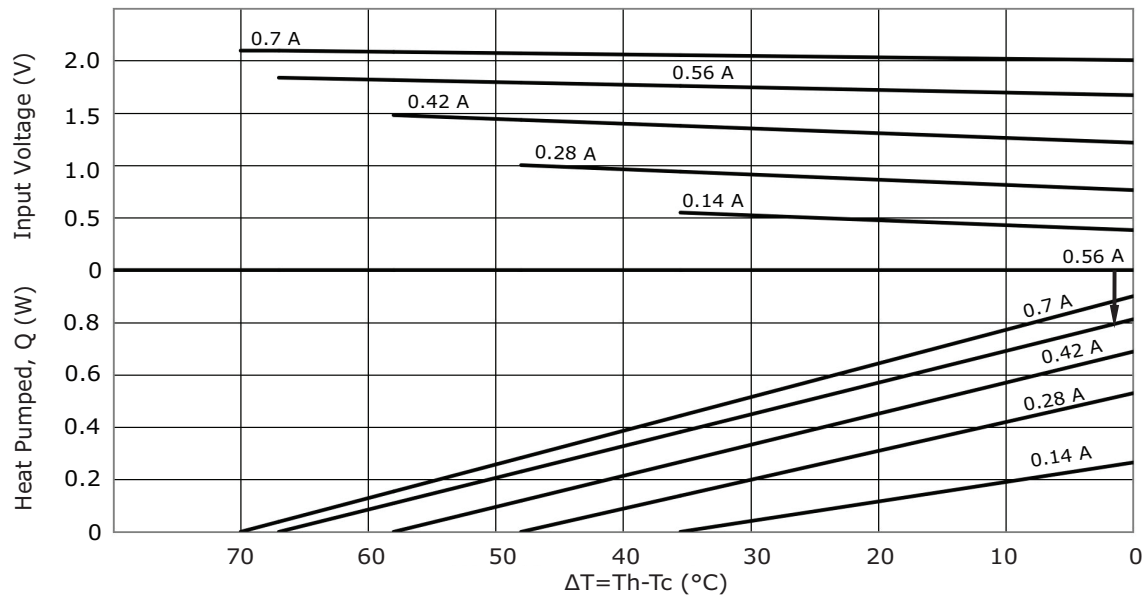
CP074965-239 PERFORMANCE (Th=27°C)



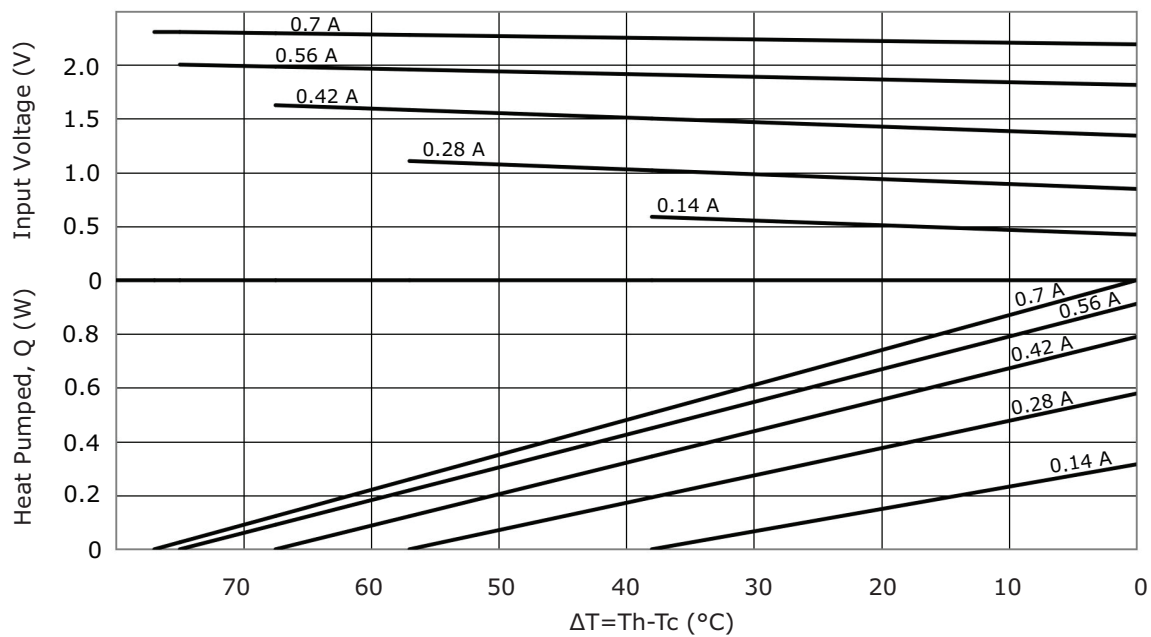
CP074965-239 PERFORMANCE (Th=50°C)



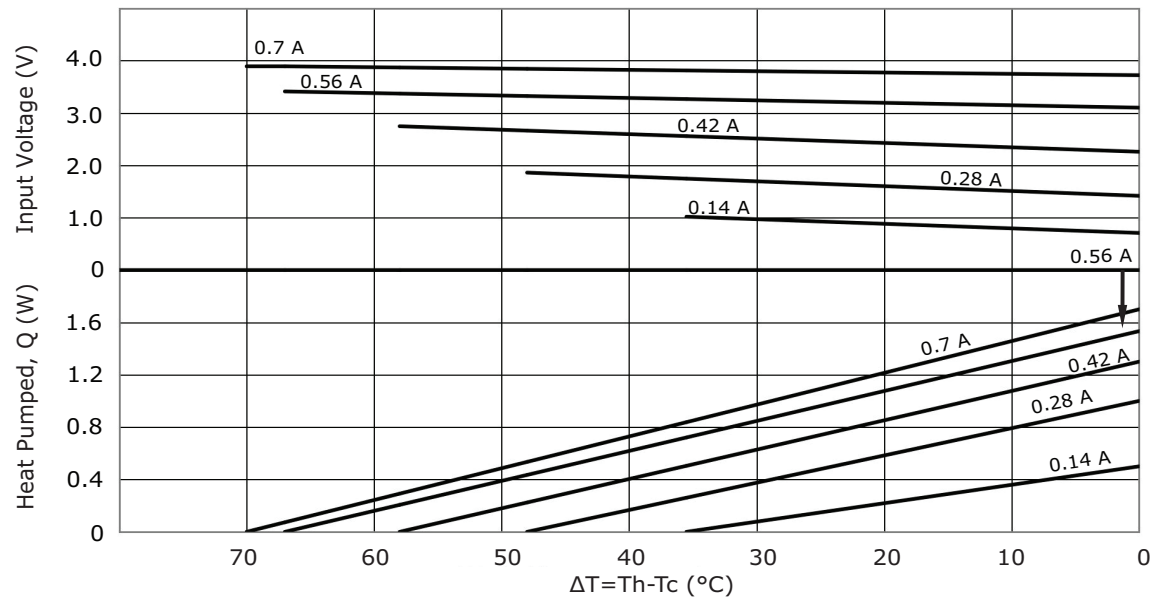
CP074965-238P PERFORMANCE (Th=27°C)



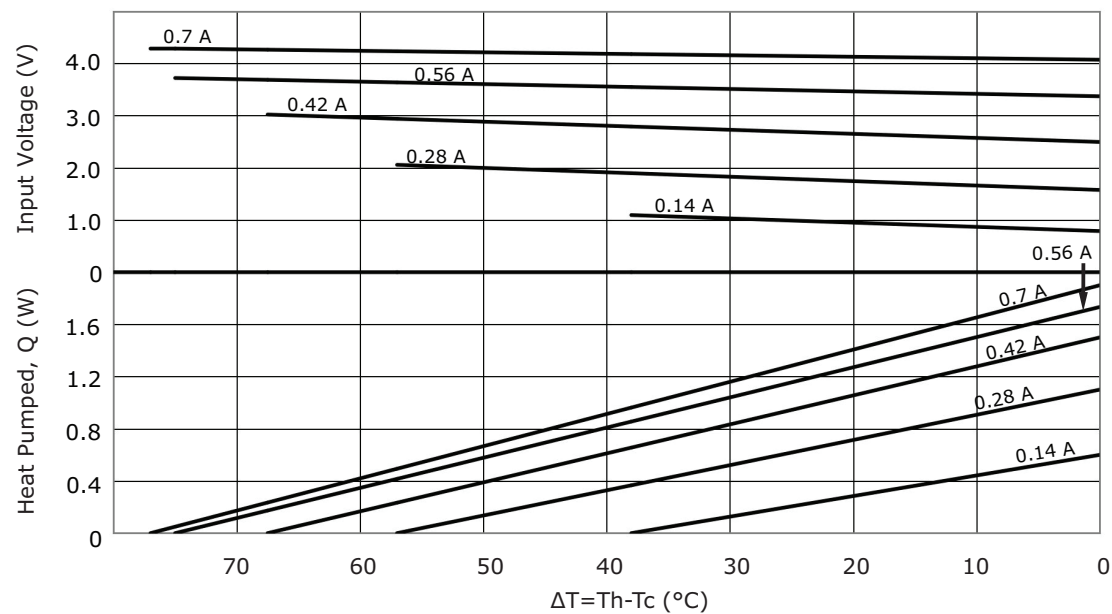
CP074965-238P PERFORMANCE (Th=50°C)



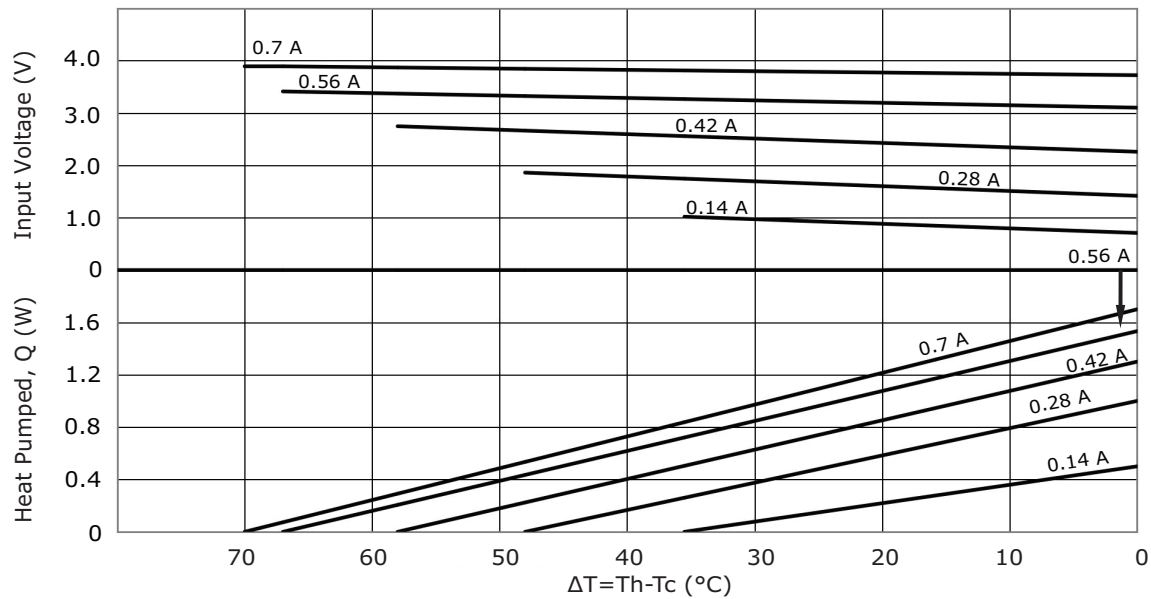
CP076581-238 PERFORMANCE (Th=27°C)



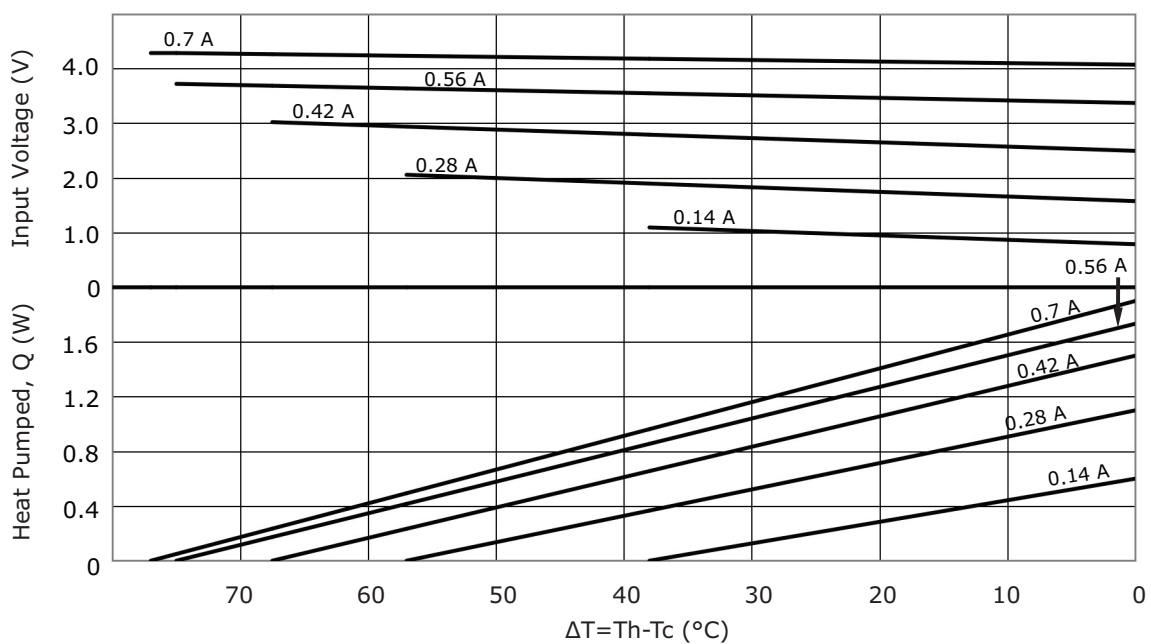
CP076581-238 PERFORMANCE (Th=50°C)



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

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



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

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