

SERIES: CP20-M | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- micro size (less than 10 x 10 mm)
- wide ΔT max
- Q_{max} of 4.7 W
- Au plating available, suitable for soldering
- precise temperature control
- solid state construction

**MODEL**

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)	$T_h = 27^\circ\text{C}$ ($^\circ\text{C}$)	$T_h = 50^\circ\text{C}$ ($^\circ\text{C}$)
CP2088-219	3.8	2.0	1.43	4.3	4.7	70	77
CP2088-258P ⁶	3.8	2.0	1.43	4.3	4.7	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:

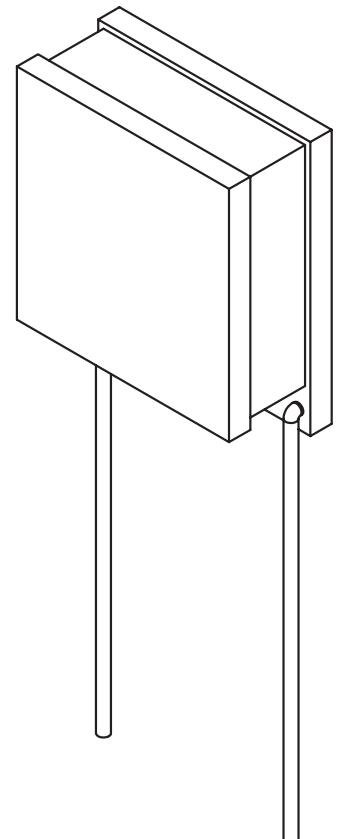
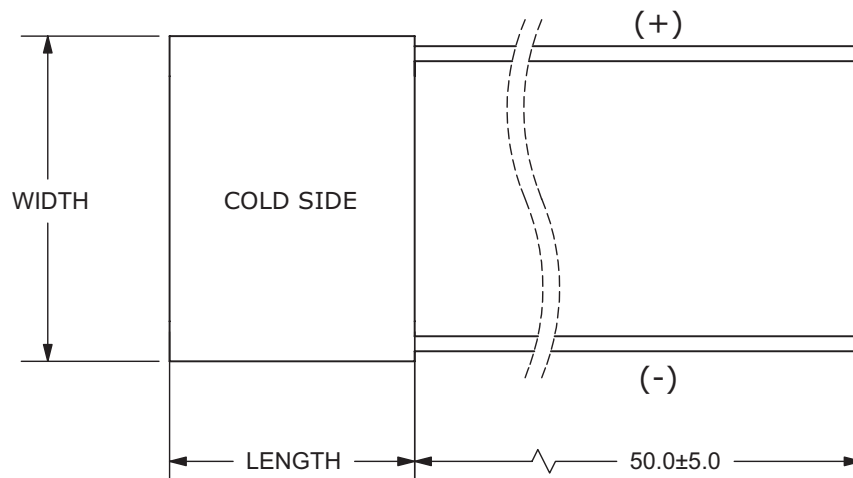
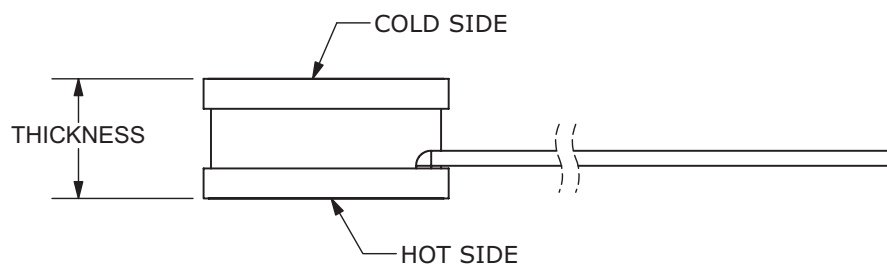
7. Only for gold plated models. The solder that holds the peltier together melts at 235°C . Caution must be taken to not leave the soldering iron in contact with the surface too long, or damage to the peltier could occur.

SPECIFICATIONS

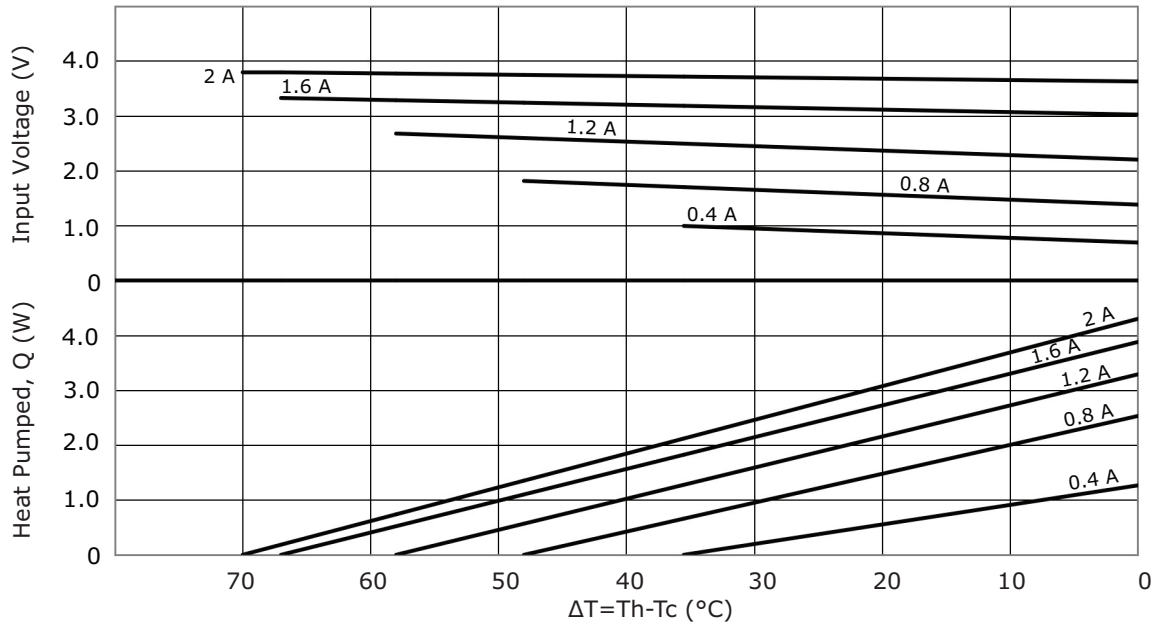
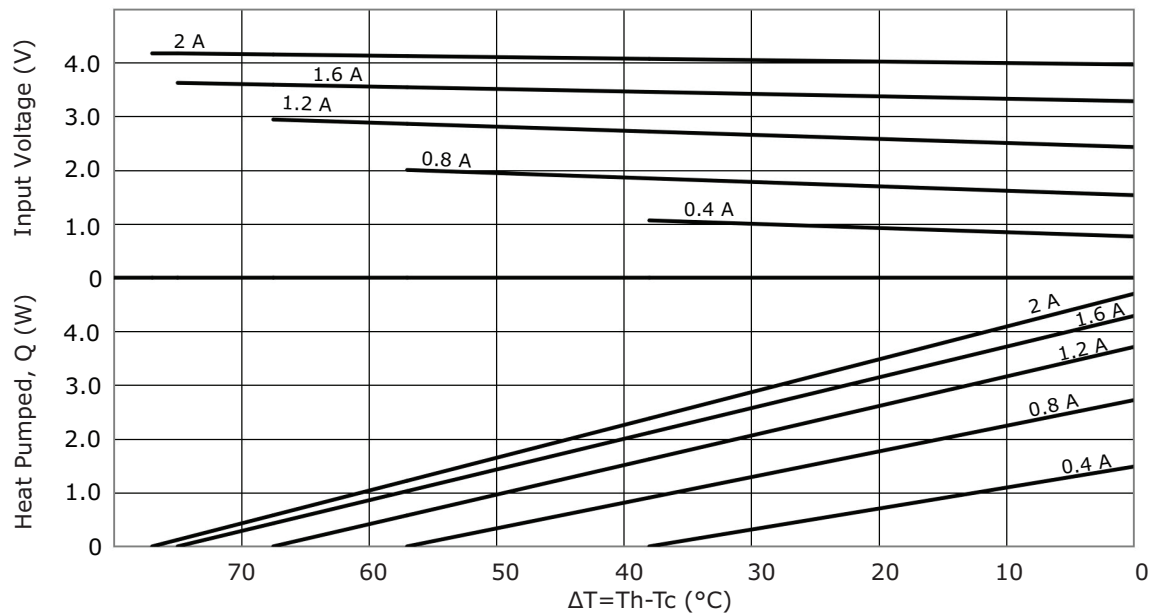
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

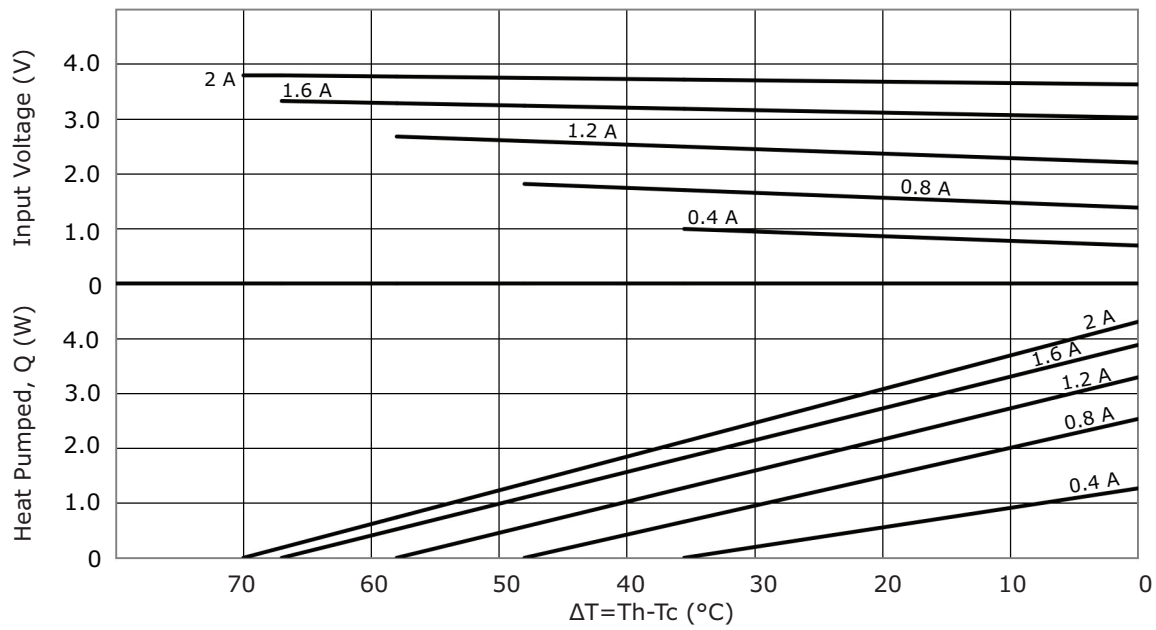
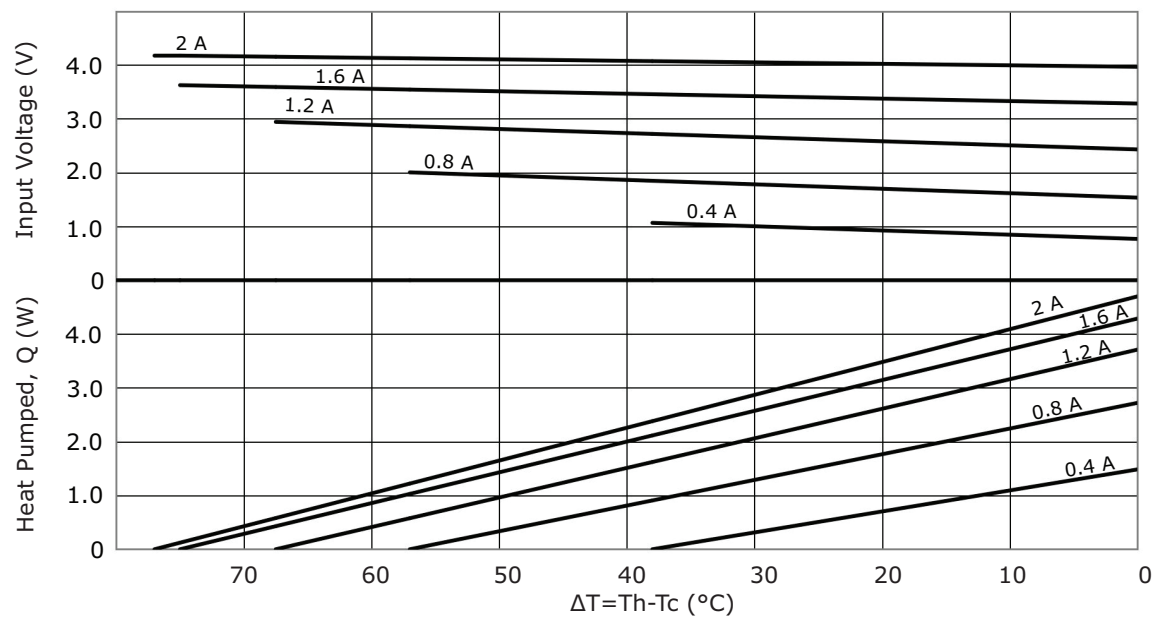
MECHANICAL DRAWING

units: mm



MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	GOLD PLATING HOT/ COLD SIDES
CP2088-219	8.8 ±0.3	8.8 ±0.3	2.19 ±0.15	NO
CP2088-258P	8.8 ±0.3	8.8 ±0.3	2.58 ±0.15	YES

CP2088-219 PERFORMANCE (Th=27°C)**CP2088-219 PERFORMANCE (Th=50°C)**

CP2088-258P PERFORMANCE (Th=27°C)**CP2088-258P 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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