

SERIES: CP14-M | **DESCRIPTION:** PELTIER MODULE**FEATURES**

- micro size (less than 10 x 10 mm)
- wide ΔT max
- Qmax up to 1.7 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 Qmax ⁴		output ΔT max ⁵	
				T _h =27°C (W)	T _h =50°C (W)	T _h =27°C (°C)	T _h =50°C (°C)
CP147660-195	2.0	1.4	1.17	1.6	1.7	70	77
CP147660-236P ⁶	2.0	1.4	1.17	1.6	1.7	70	77

Notes:

1. Maximum voltage at ΔT max and T_h=27°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=0W (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	°C

Note:

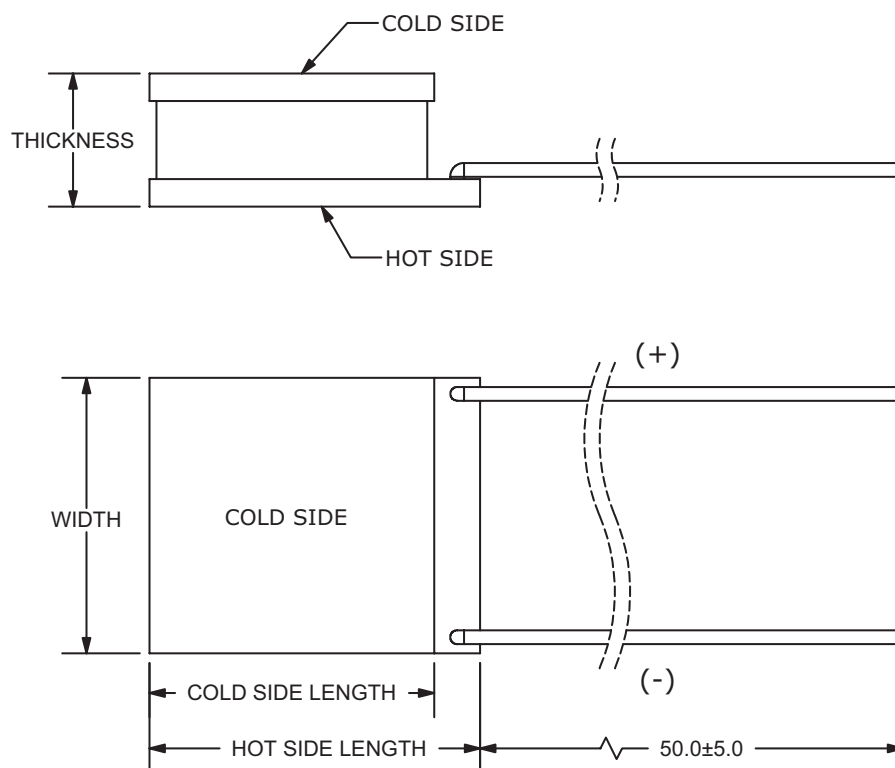
7. Only for gold plated models. The solder that holds the peltier together melts at 235°C. Caution must taken to not leave the soldering iron in contact with the surface too long, or damage to the peltier could occur.

SPECIFICATIONS

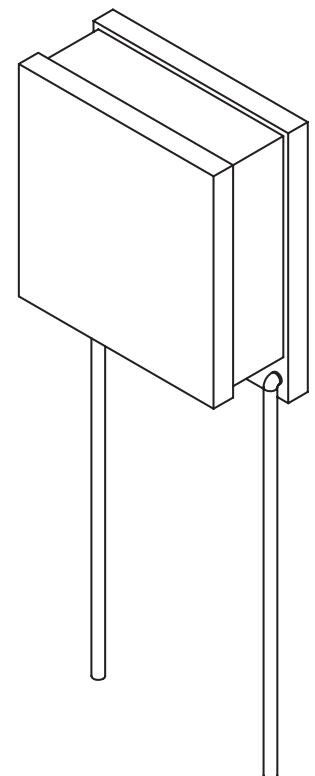
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				0.8	MPa
RoHS	yes				

MECHANICAL DRAWING

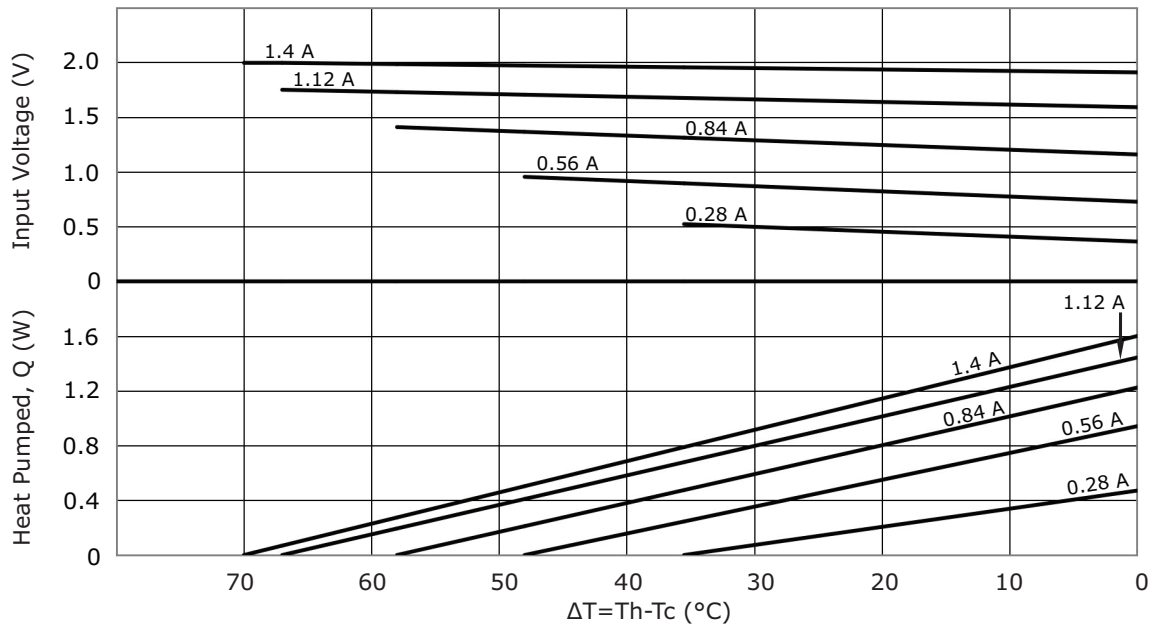
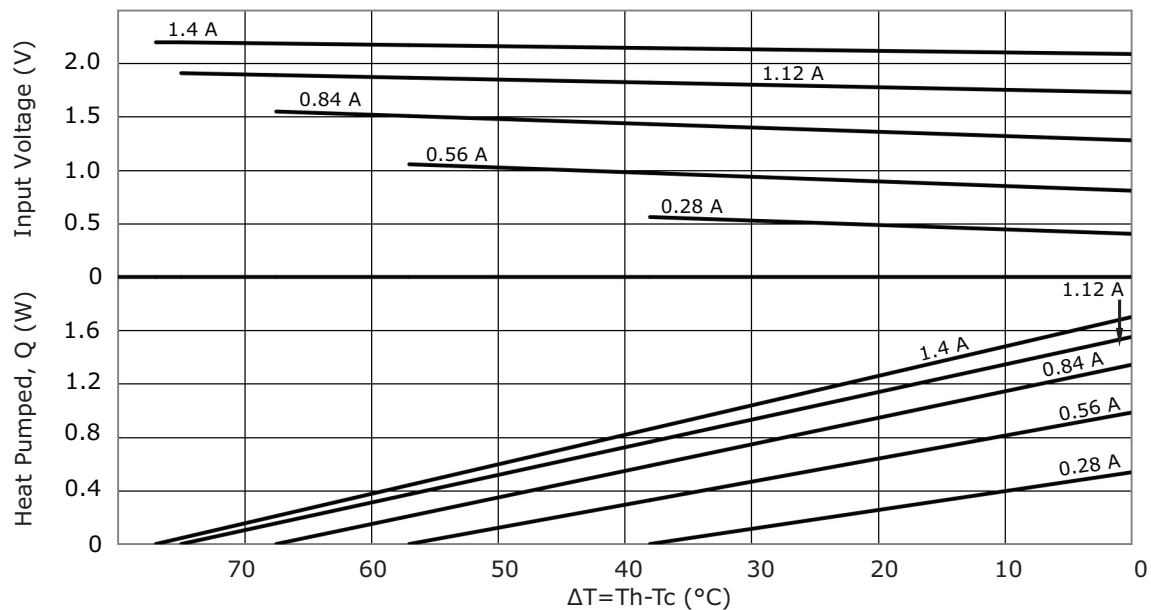
units: mm

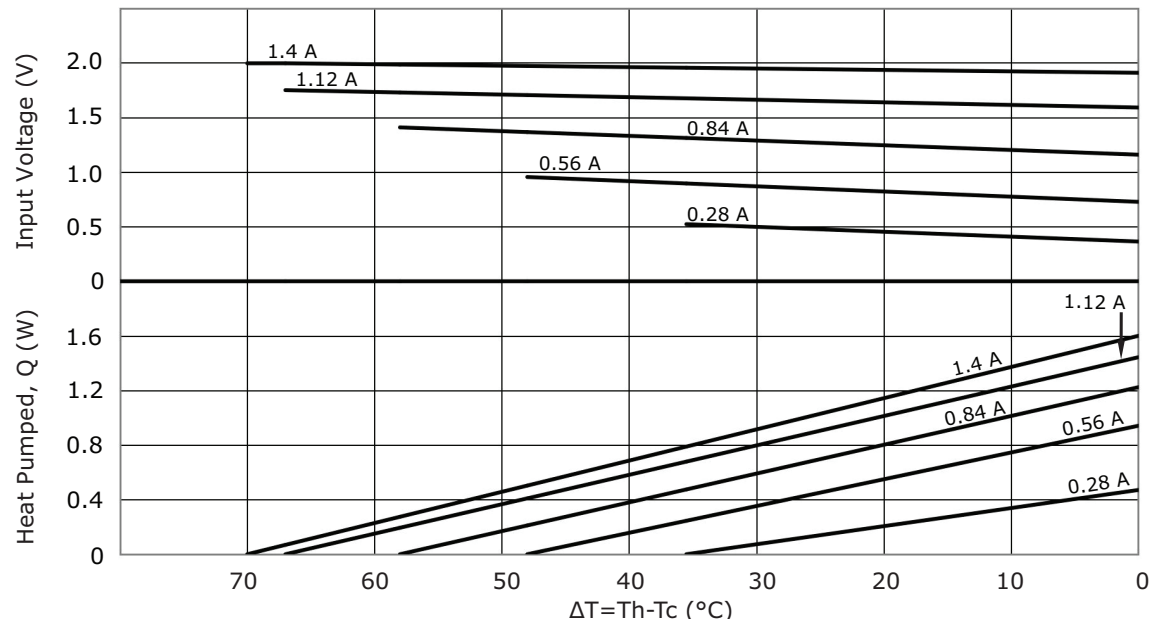
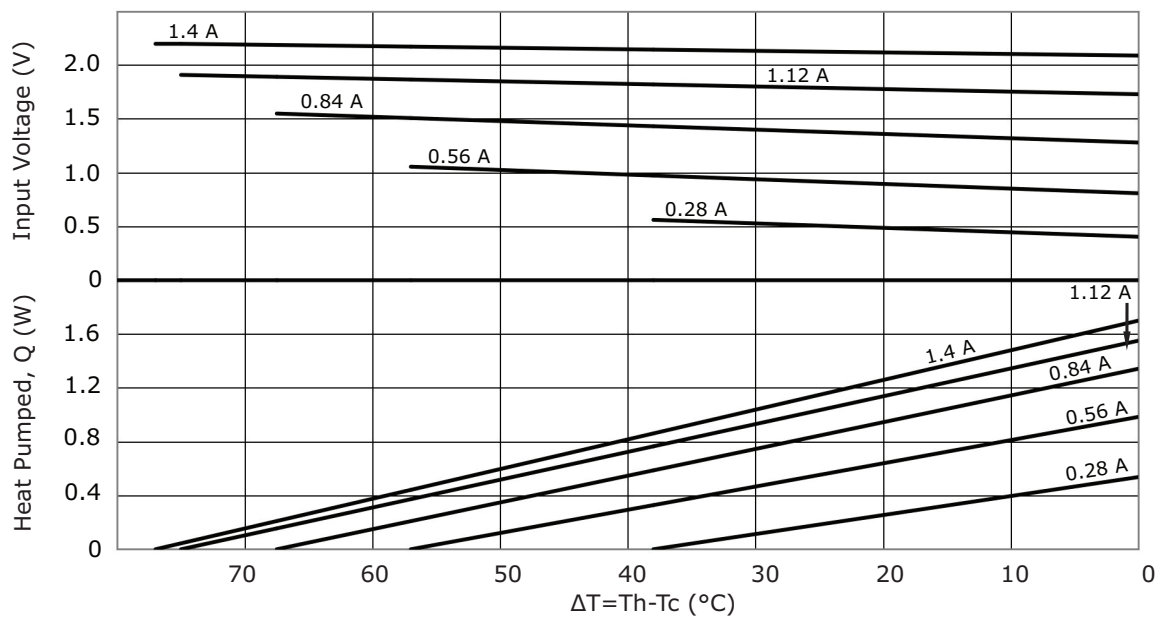


	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	$\varnothing 0.25\text{-}0.3$ mm annealed copper	tin
sealer	no sealing	
ceramic surface	Au plating on select models	



MODEL NO.	HOT SIDE LENGTH (mm)	COLD SIDE LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	GOLD PLATING HOT/ COLD SIDES
CP147660-195	7.6±0.3	6.0 ±0.3	6.0 ±0.3	1.95 ±0.15	NO
CP147660-236P	7.6±0.3	6.0 ±0.3	6.0 ±0.3	2.36 ±0.15	YES

CP147660-195 PERFORMANCE (Th=27°C)**CP147660-195 PERFORMANCE (Th=50°C)**

CP147660-236P PERFORMANCE (Th=27°C)**CP147660-236P 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.

CUI DEVICES

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

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

CUI Devices 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CUI Devices:

[CP147660-195](#) [CP147660-236P](#)