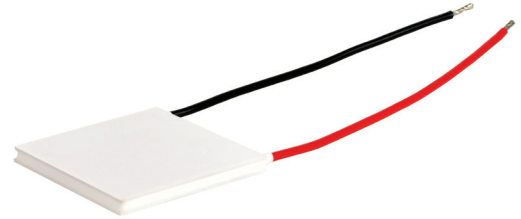


SERIES: CP125 | **DESCRIPTION:** PELTIER MODULE

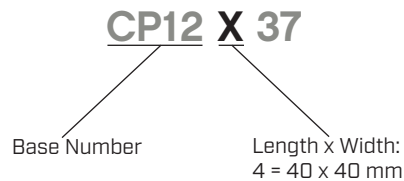
FEATURES

- arcTEC™ structure
- solid state device
- precise temperature control
- quiet operation


MODEL

	input voltage ¹ max [Vdc]	input current ² max [A]	$T_h=27^{\circ}\text{C}$ [W]	output Q_{max}^3 $T_h=50^{\circ}\text{C}$ [W]	$T_h=27^{\circ}\text{C}$ [°C]	output ΔT_{max}^4 $T_h=50^{\circ}\text{C}$ [°C]
CP12437	15.4	12.5	110	121	68	75

Notes: 1. Maximum voltage at ΔT_{max} and $T_h=27^{\circ}\text{C}$
 2. Maximum current to achieve ΔT_{max}
 3. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T=0^{\circ}\text{C}$
 4. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q=0\text{W}$ (ΔT_{max} measured in a vacuum at 1.3 Pa)

PART NUMBER KEY


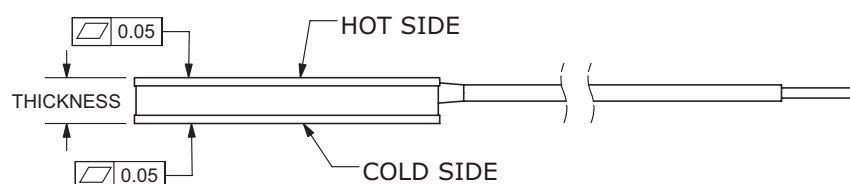
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance ¹		0.855	0.95	1.045	Ω
solder melting temperature	connection between thermoelectric pairs	235			$^{\circ}\text{C}$
assembly compression				1	MPa
hot side plate				80	$^{\circ}\text{C}$
RoHS	yes				

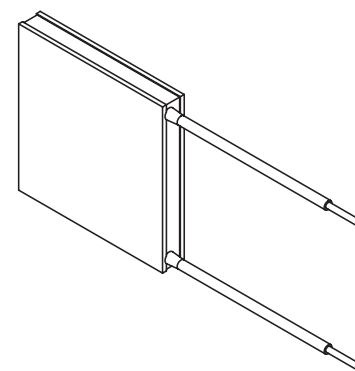
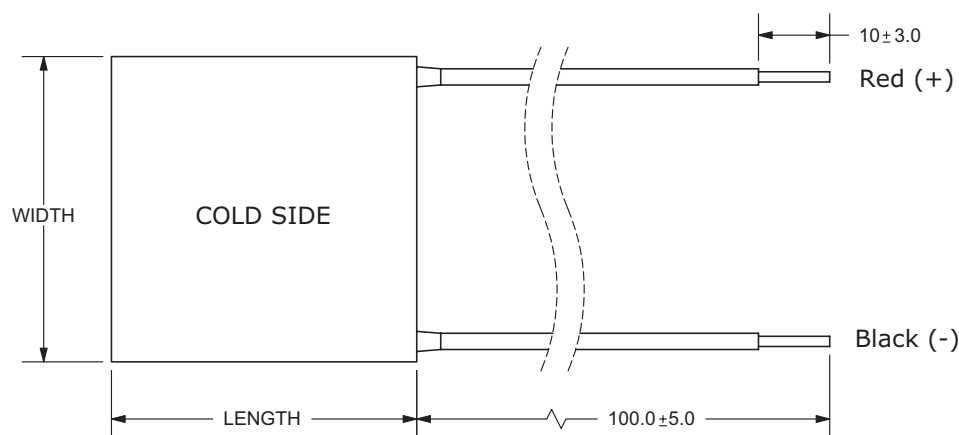
Note: 1. Measured by AC 4-terminal method at 25 $^{\circ}\text{C}$

MECHANICAL DRAWING

units: mm

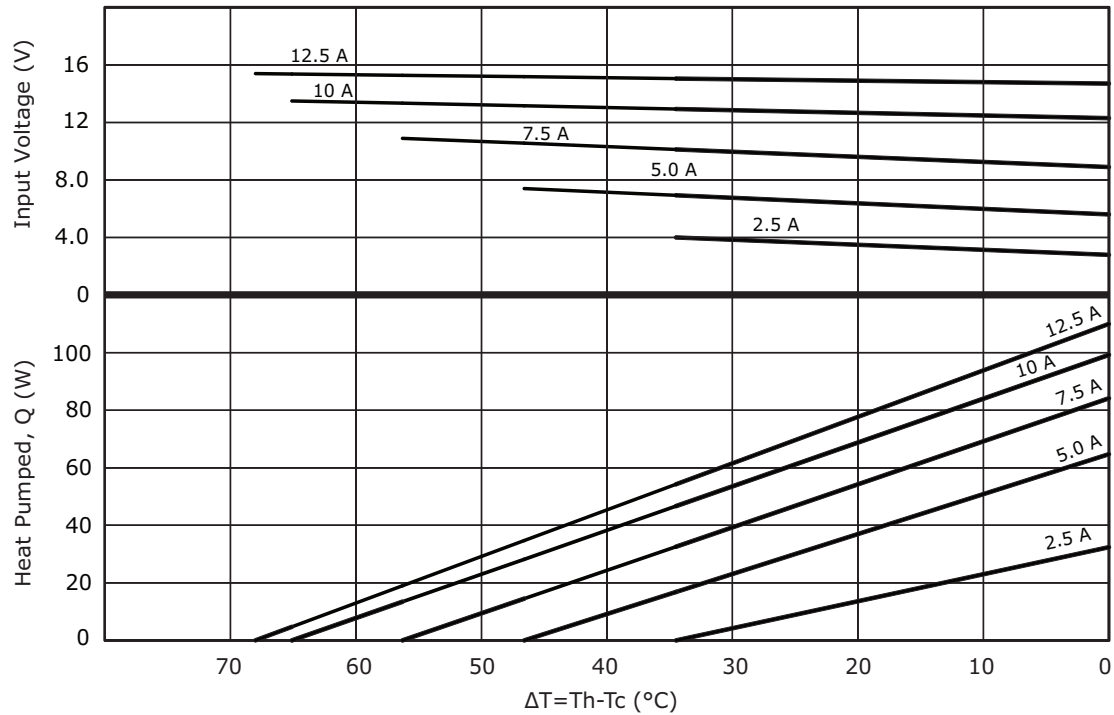


	MATERIAL	PLATING
ceramic plate	96% Al_2O_3	
wire leads	18 AWG	tin
sealer	silicon rubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

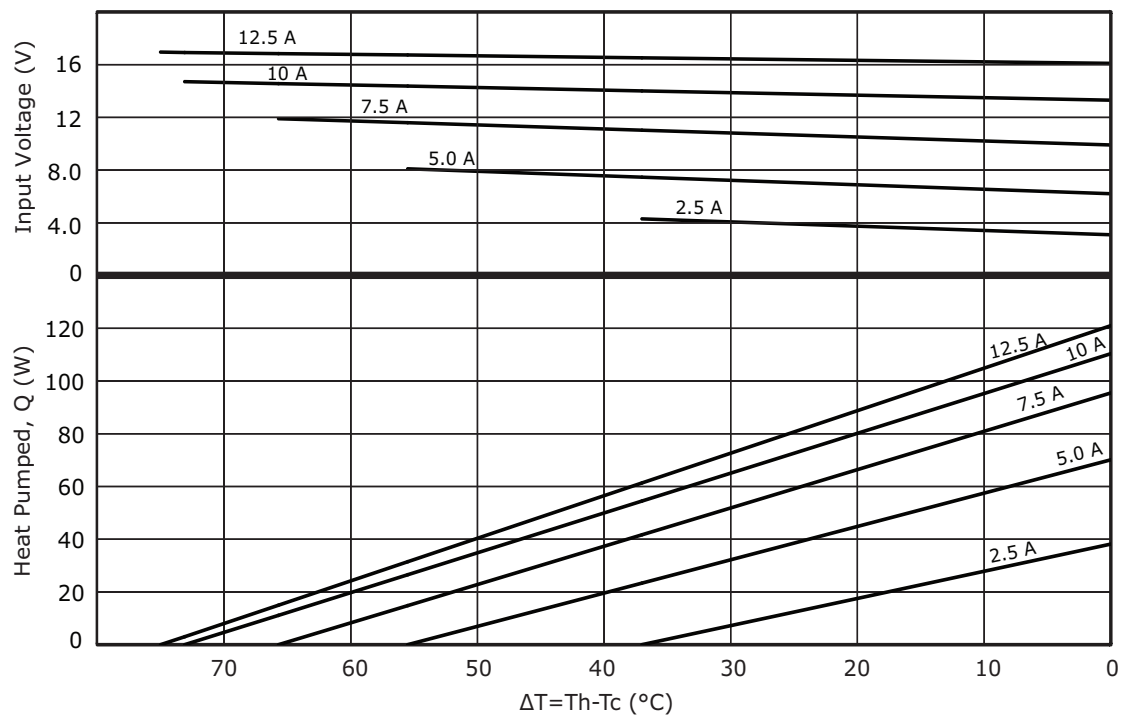


MODEL NO.	LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP12437	40 $\pm$ 0.3	40 $\pm$ 0.3	3.7 $\pm$ 0.1

PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	09/08/2016
1.01	changed to arcTEC™ structure	12/01/2017
1.02	brand update	10/28/2019
1.03	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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