

date 08/05/2022

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SERIES: CP125 | DESCRIPTION: PELTIER MODULE

FEATURES

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





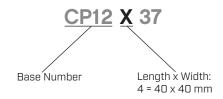
MODEL	input	input	output		output	
	voltage¹	current²	Qmax³		∆Tmax⁴	
	max	max	T _h =27°C	T _h =50°C	T_h=27°C	T _h =50°C
	(Vdc)	[A]	(W)	(W)	(°C)	(°C)
CP12437	15.4	12.5	110	121	68	75

Notes:

- 1. Maximum voltage at ΔT max and T_h =27°C 2. Maximum current to achieve ΔT max

- 3. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C 4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=DW (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY

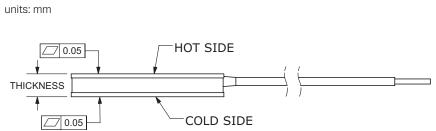


SPECIFICATIONS

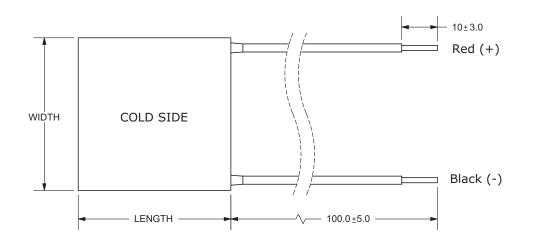
parameter	conditions/description	min	typ	max	units
internal resistance ¹		0.855	0.95	1.045	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	yes				

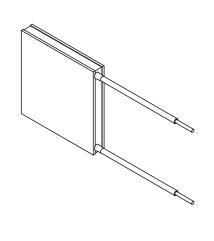
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING



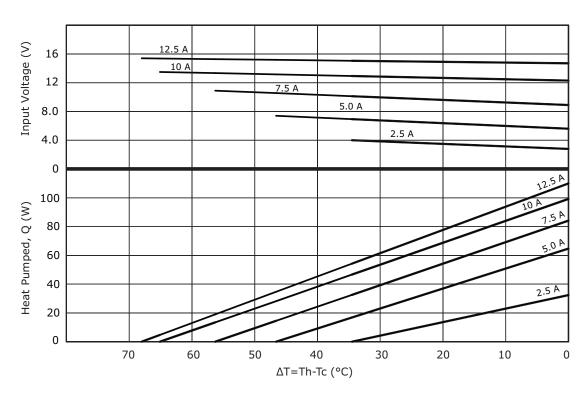
	MATERIAL	PLATING	
ceramic plate	96% AL ₂ O ₃		
wire leads	18 AWG	tin	
sealer	silicon rubber 703 RTV (between cold and hot side plates)		
joint cover	silicon rubber 703 R	TV	
marking	P/N & S/N printed on cold side surface		



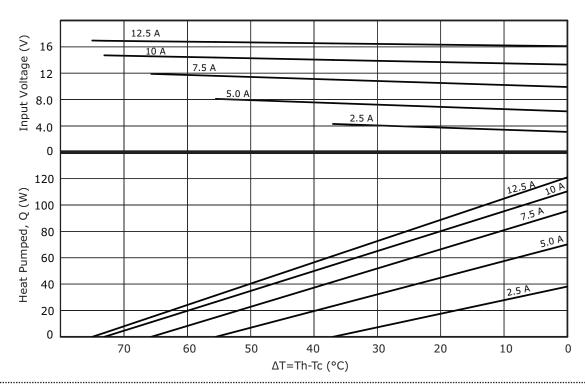


MODEL NO.	LENGTH	WIDTH	THICKNESS
	(mm)	(mm)	(mm)
CP12437	40 ±0.3	40 ±0.3	3.7 ±0.1

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.



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