

date 08/05/2022

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## SERIES: CP85-2 | DESCRIPTION: PELTIER MODULE

#### **FEATURES**

- · solid state device
- 2-stage cooler
- precise temperature control
- quiet operation



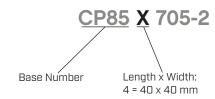


MODEL	input input output voltage¹ current² Qmax³		•	output ∆Tmax⁴		
	max (Vdc)	max [A]	T <sub>h</sub> =27°C (W)	T <sub>h</sub> =50°C (W)	<b>T<sub>h</sub>=27°C</b> (°C)	T <sub>h</sub> =50°C (°C)
CP854705-2	16.1	8.5	51.6	58	85	95

Notes:

- 1. Maximum voltage at  $\Delta T$  max and  $T_h$ =27°C 2. Maximum current to achieve  $\Delta T$  max
- 3. Maximum heat absorbed at cold side occurs at I max, V max, and  $\Delta T=0^{\circ}C$ 4. Maximum temperature difference occurs at I max, and Q=DW ( $\Delta T$  max measured in a vacuum at 1.3 Pa)

### **PART NUMBER KEY**



## **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
internal resistance <sup>1</sup>		1.485	1.65	1.815	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

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

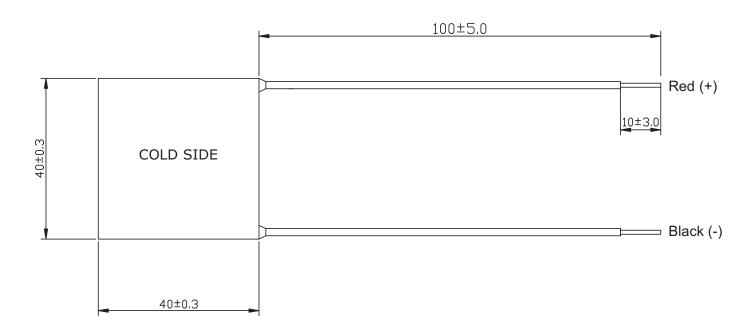
#### **MECHANICAL DRAWING**

sealer silicon tubber 703 RTV (between cold and hot side plates)

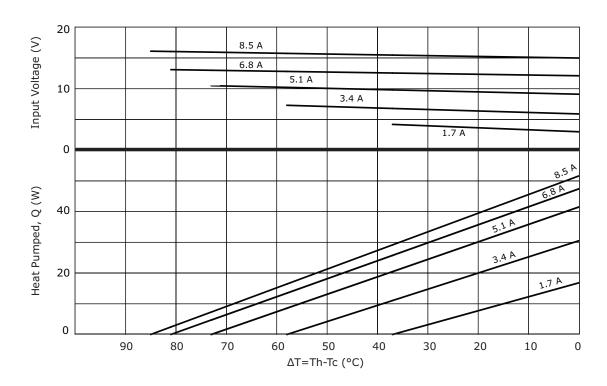
joint cover scilicon rubber 703 RTV

marking P/N & S/N printed on cold side surface

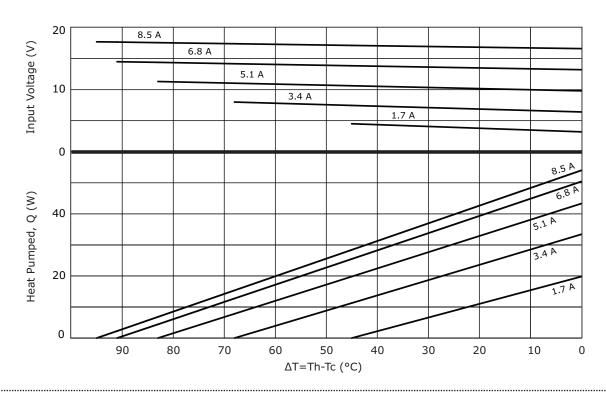




# PERFORMANCE (Th=27°C)



## PERFORMANCE (Th=50°C)



### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	09/12/2016	
1.01	brand update	10/30/2019	
1.02	updated solder melting point	08/24/2021	
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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