

date 08/05/2022

page 1 of 4

SERIES: CP85-2 | DESCRIPTION: PELTIER MODULE

FEATURES

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



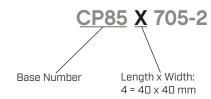


MODEL	input	input	output		output	
	voltage¹	current²	Qmax³		∆Tmax⁴	
	max	max	T _h =27°C	T _h =50°C	T_n=27°C	T _h =50°C
	(Vdc)	[A]	(W)	(W)	(°C)	(°C)
CP854705-2	16.1	8.5	51.6	58	85	95

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 $\Delta T=0^{\circ}C$ 4. Maximum temperature difference occurs at I 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		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

units: mm

material Plating

ceramic plate 96% AL₂D₃

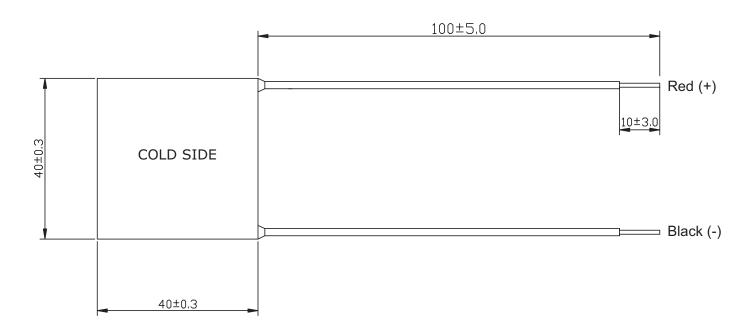
wire leads 20 AWG tin

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

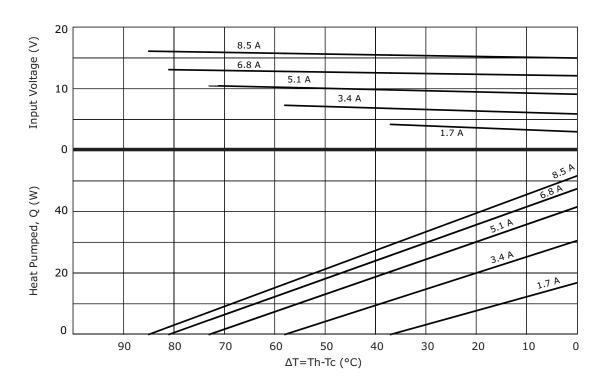
joint cover scilicon rubber 703 RTV

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

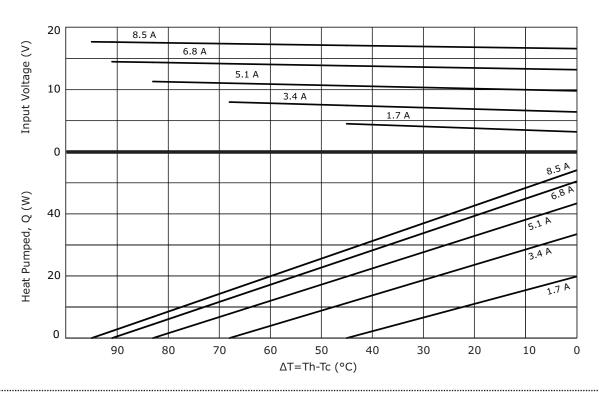




PERFORMANCE (Th=27°C)



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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