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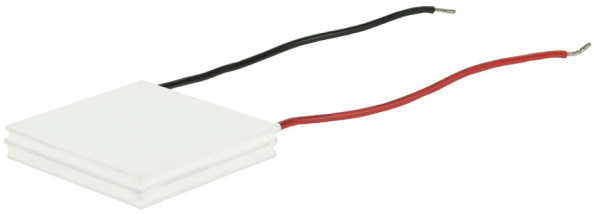
Additional Resources: Product Page

SERIES: CP85-2 | DESCRIPTION: PELTIER MODULE

FEATURES

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



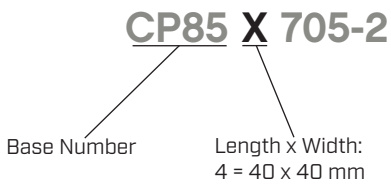
RoHS

MODEL

MODEL	input voltage[1] max (Vdc)	input current[2] max (A)	output Qmax[3] T_h=27°C (W)	output Qmax[3] T_h=50°C (W)	output ΔTmax[4] T_h=27°C (°C)	output ΔTmax[4] T_h=50°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 ΔT=0°C
4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY



SPECIFICATIONS

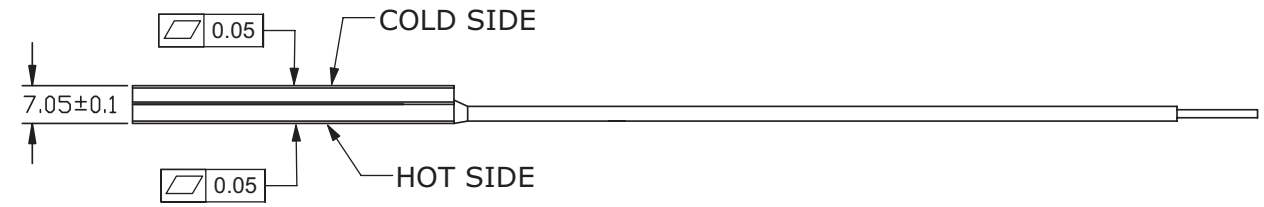
parameter	conditions/description	min	typ	max	units
internal resistance[1]		1.485	1.65	1.815	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

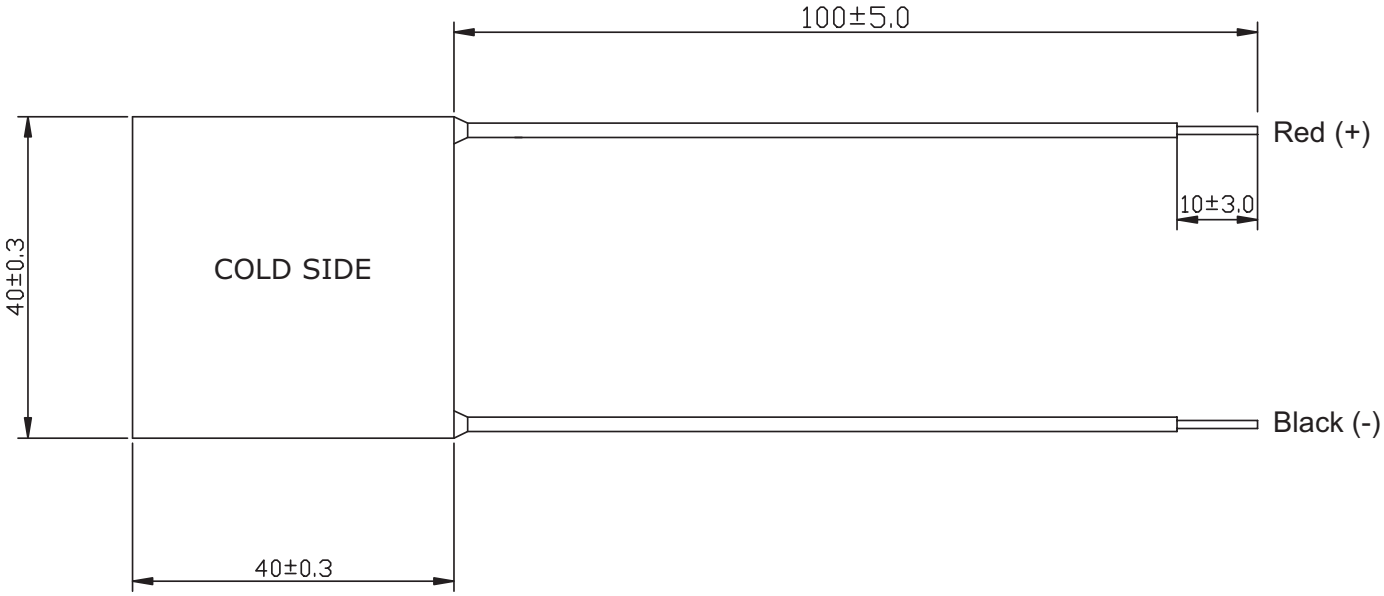
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

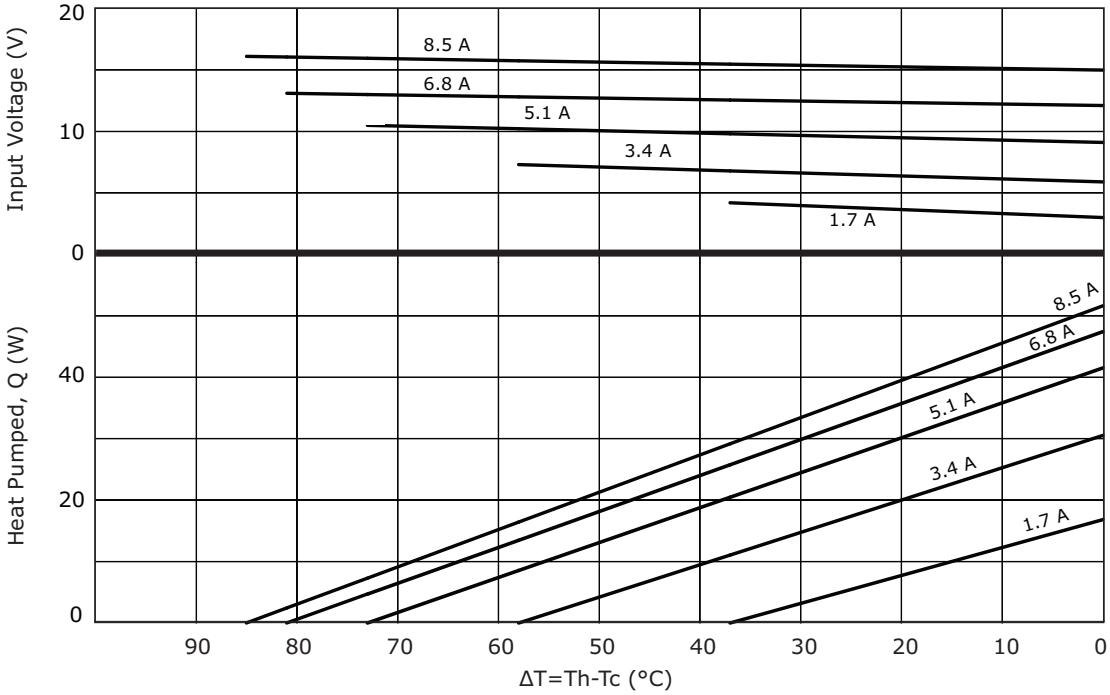
units: mm

	MATERIAL	PLATING
ceramic plate	96% AL_2O_3	
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	

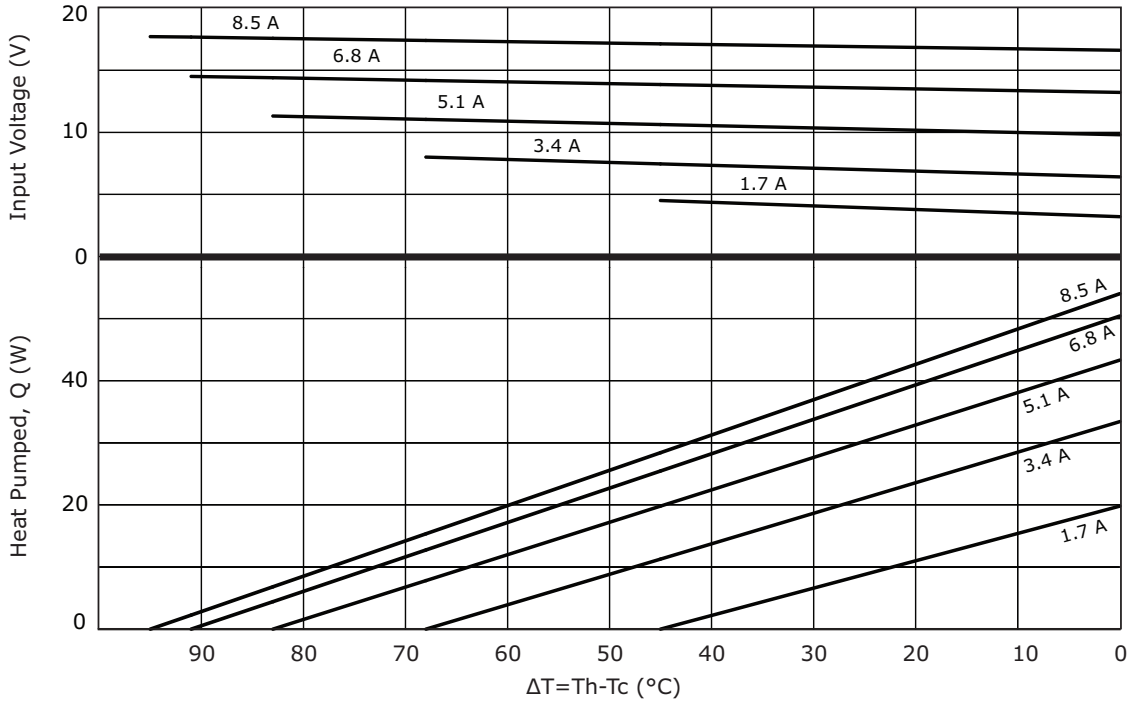




PERFORMANCE (Th=27°C)



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
1.04	CUI Devices rebranded to Same Sky	09/12/2024

The revision history provided is for informational purposes only and is believed to be accurate.

same sky

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