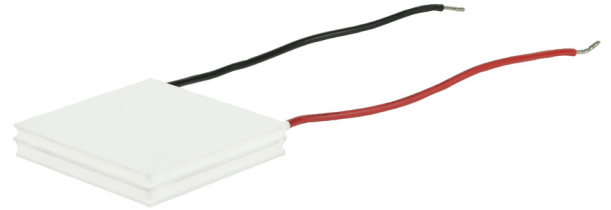




**SERIES:** CP85-2 | **DESCRIPTION:** PELTIER MODULE

**FEATURES**

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

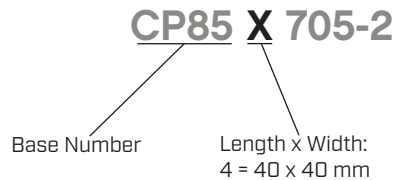


**MODEL**

	input voltage <sup>1</sup> max [Vdc]	input current <sup>2</sup> max [A]	output Qmax <sup>3</sup>		output ΔTmax <sup>4</sup>	
			T <sub>h</sub> =27°C [W]	T <sub>n</sub> =50°C [W]	T <sub>h</sub> =27°C [°C]	T <sub>n</sub> =50°C [°C]
CP854705-2	16.1	8.5	51.6	58	85	95

Notes: 1. Maximum voltage at ΔT max and T<sub>n</sub>=27°C  
 2. Maximum current to achieve ΔT max  
 3. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and ΔT=0°C  
 4. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

**PART NUMBER KEY**



## SPECIFICATIONS

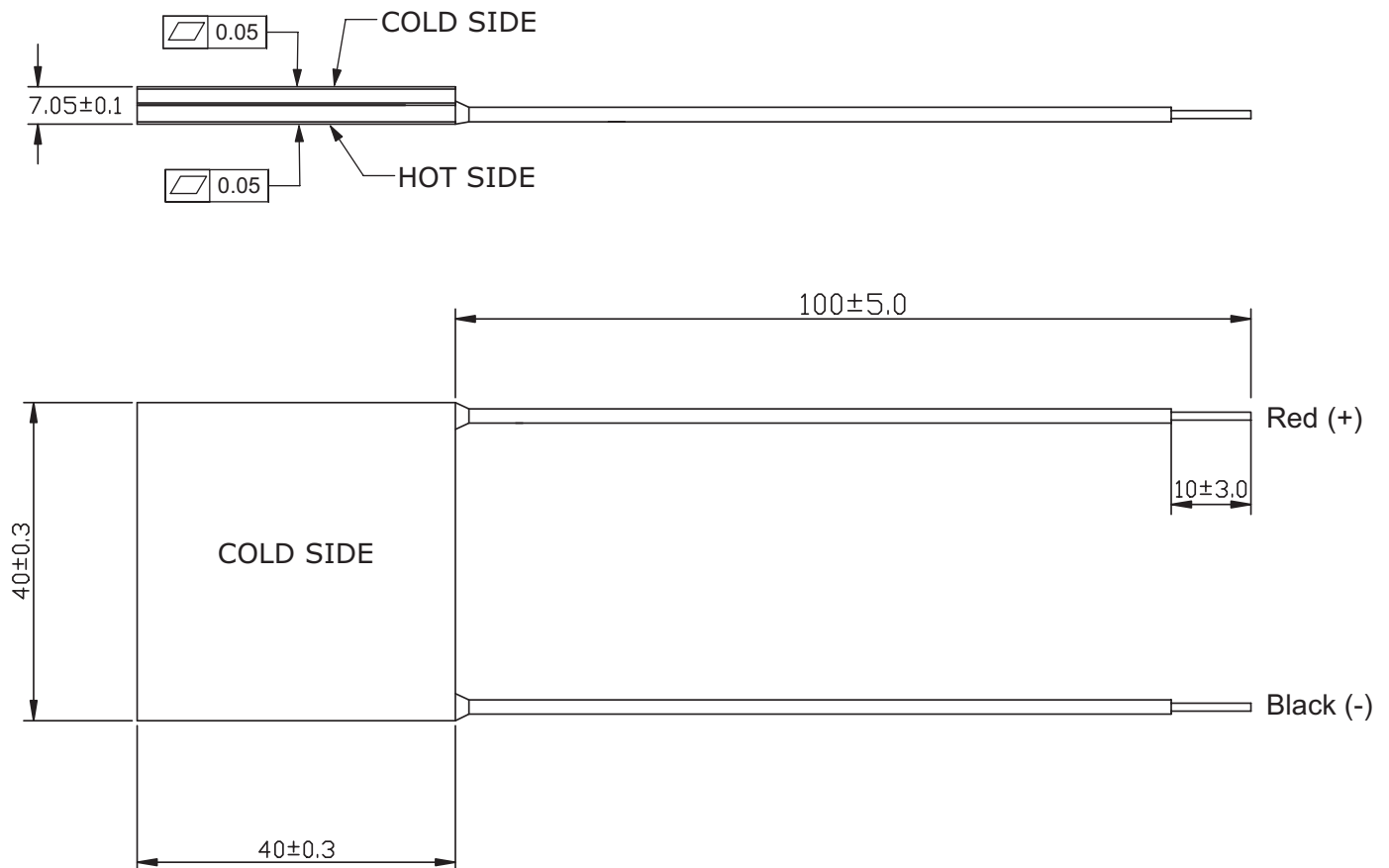
parameter	conditions/description	min	typ	max	units
internal resistance <sup>1</sup>		1.485	1.65	1.815	Ω
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				80	°C
RoHS	2011/65/EU				

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

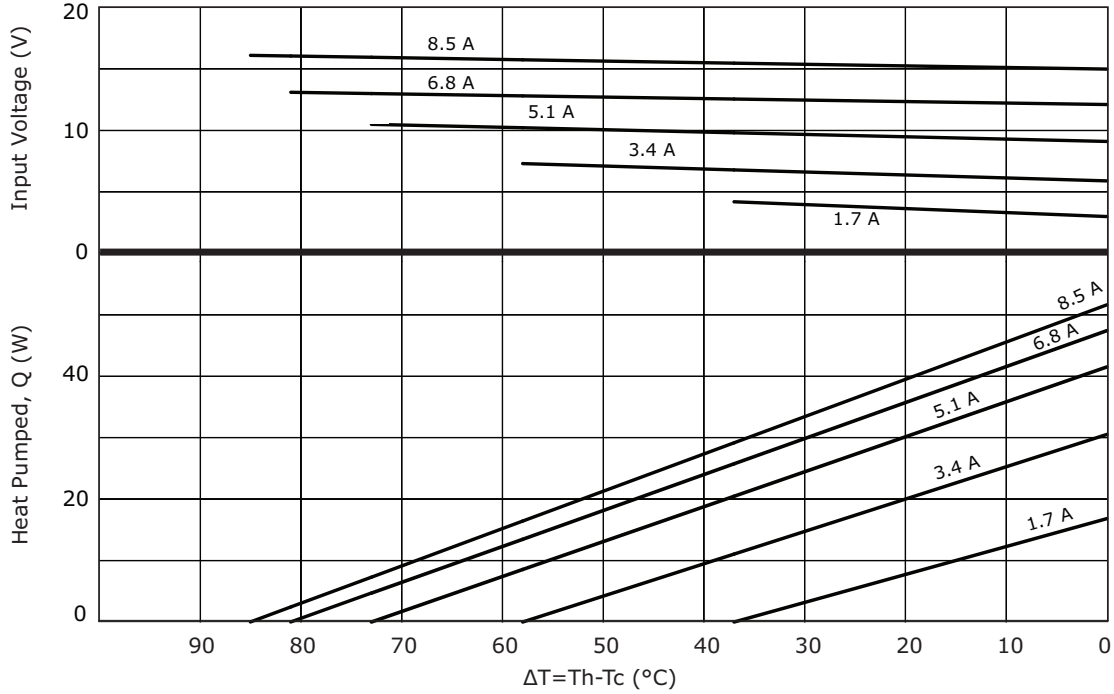
## MECHANICAL DRAWING

units: mm

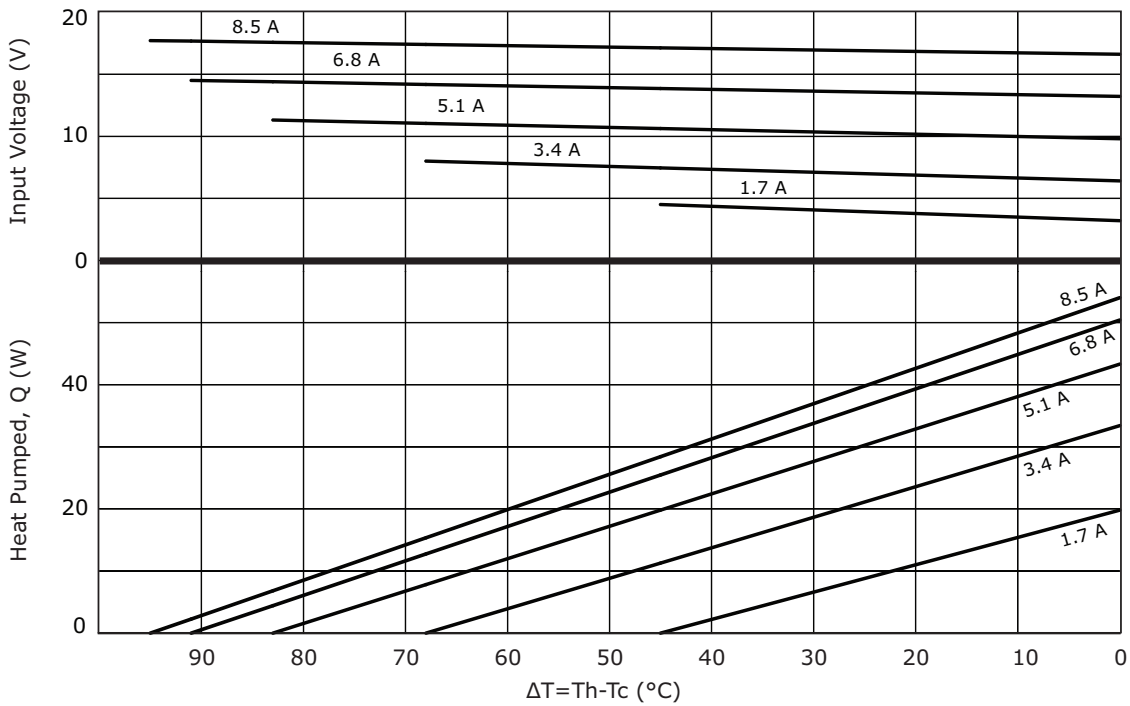
	MATERIAL	PLATING
ceramic plate	96% AL <sub>2</sub> O <sub>3</sub>	
wire leads	20 AWG	tin
sealer	silicon tubber 703 RTV (between cold and hot side plates)	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	



## 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 offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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