

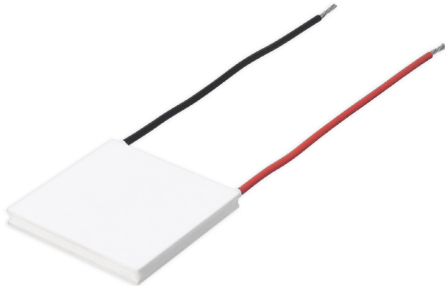


SERIES: CP200

| DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure
- enhanced reliability for high thermal cycling
- high I_{max} rating of 20 A
- silicon sealed
- wide ΔT_{max}
- precise temperature control
- solid state construction



MODEL

	input voltage ¹ max [Vdc]	input current ² max [A]	internal resistance ³ typ [Ω±10%]	output Q _{max} ⁴		output ΔT _{max} ⁵	
				T _h =27°C [W]	T _h =50°C [W]	T _h =27°C [°C]	T _h =50°C [°C]
CP200543636	8.5	20	0.33±0.05	96	105	70	77

Notes:

1. Maximum voltage at ΔT_{max} and T_h=27°C

2. Maximum current to achieve ΔT_{max}

3. Measured by AC 4-terminal method at 25°C

4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C

5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT_{max} measured in a vacuum at 1.3 Pa)

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				

MECHANICAL DRAWING

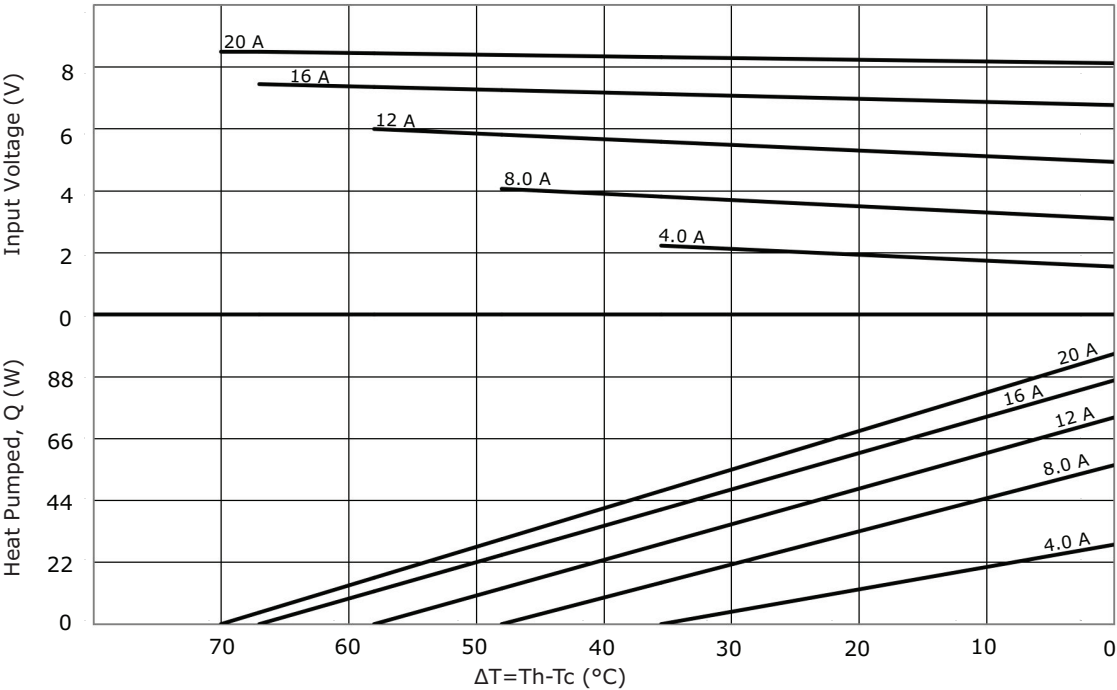
units: mm

The drawing includes a top view showing the 'COLD SIDE' and 'HOT SIDE' with dimensions for 'COLD SIDE LENGTH', 'HOT SIDE LENGTH', and 'WIDTH'. A side view shows the 'THICKNESS' and 'COLD SIDE' with a break line. A detail view shows the 'Red (+)' and 'Black (-)' wire leads with a dimension of 10.0±3.0. A 3D perspective view shows the module with wire leads.

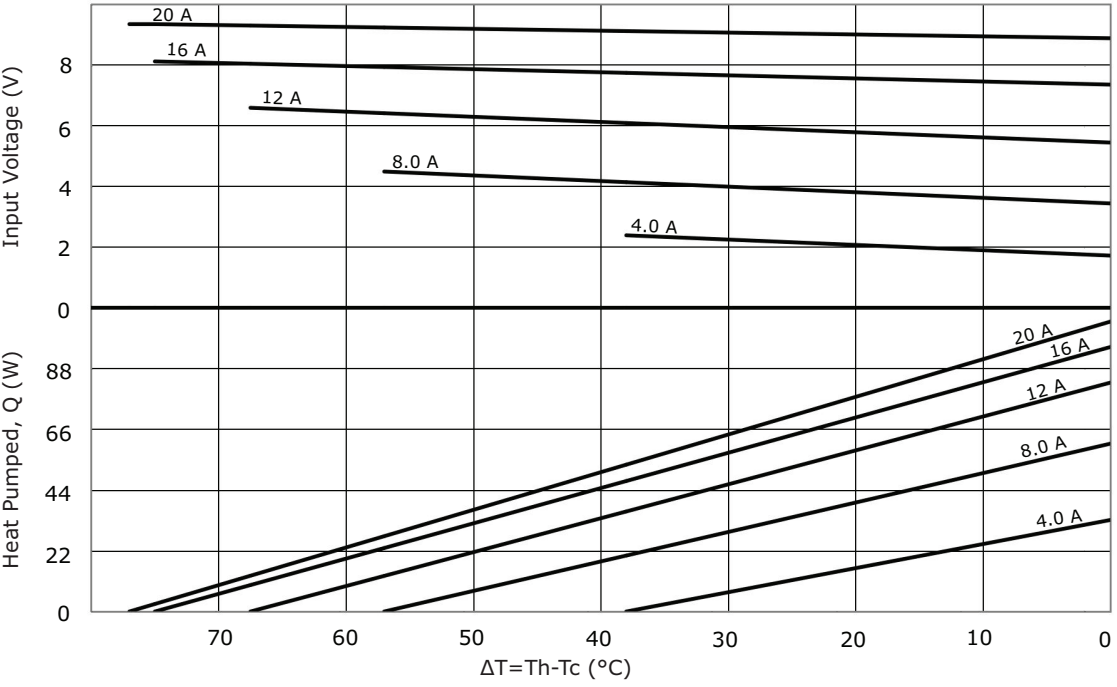
	MATERIAL	PLATING
ceramic plate	96% AL ₂ O ₃	
wire leads	18 AWG	tin
sealer	silicon rubber 703 RTV [between cold and hot side plates]	
joint cover	silicon rubber 703 RTV	
marking	P/N & S/N printed on cold side surface	

MODEL NO.	HOT SIDE LENGTH [mm]	COLD SIDE LENGTH [mm]	WIDTH [mm]	THICKNESS [mm]
CP200543636	54 ±0.3	50 ±0.3	36 ±0.3	3.6 ±0.025

CP200543636 PERFORMANCE (Th=27°C)



CP200543636 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	11/12/2020
1.01	logo, datasheet style update	08/05/2022
1.02	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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