

Additional Resources: Product Page

date 09/12/2024

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SERIES: CP120 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure
- enhanced reliability for high thermal cycling
- superior thermal performance
- silicon sealed
- wide ∆T max
- precise temperature control
- solid state construction





MODEL	input	input	internal	output		output	
	voltage¹	current²	resistance³	Qmax⁴		∆Tmax⁵	
	max	max	typ	T _h =27°C	T _h =50°C	T_h=27°C	T_h=50°C
	(Vdc)	[A]	[Ω±10%]	(W)	(W)	(°C)	(°C)
CP124159365	17	12	1.1	121	135	68	75

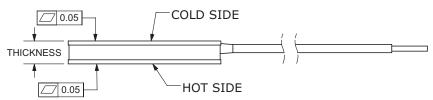
- 1. Maximum voltage at ΔT max and $T_{\rm h}$ =27°C 2. Maximum current to achieve ΔT max
- 3. Measured by AC 4-terminal method at 25°C
- 4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T=0^{\circ}C$ 5. Maximum temperature difference occurs at I_{max} , V_{max} , and Q=DW (ΔT max measured in a vacuum at 1.3 Pa)

SPECIFICATIONS

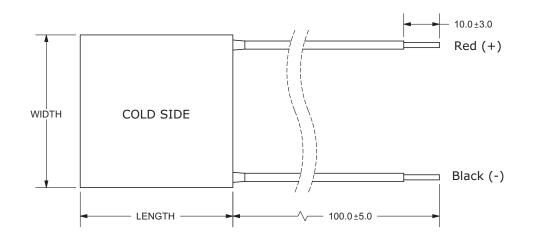
parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	yes				_

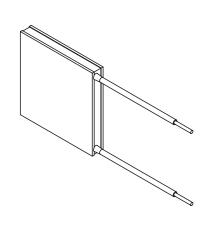
MECHANICAL DRAWING





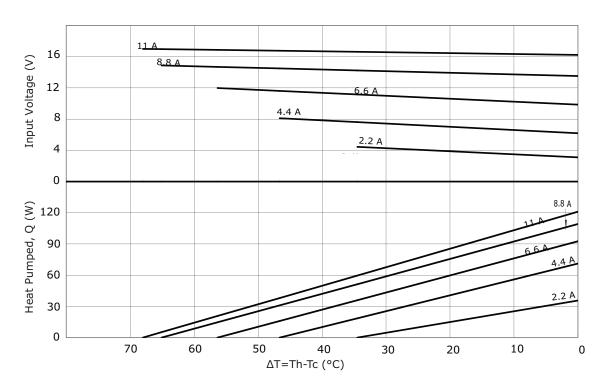
	MATERIAL	PLATING	
ceramic plate	96% AL ₂ O ₃		
wire leads	18 AWG	tin	
sealer	silicon rubber 703 RTV (between cold and hot side plates)		
joint cover	silicon rubber 703 RTV		
marking	P/N & S/N printed on cold side surface		



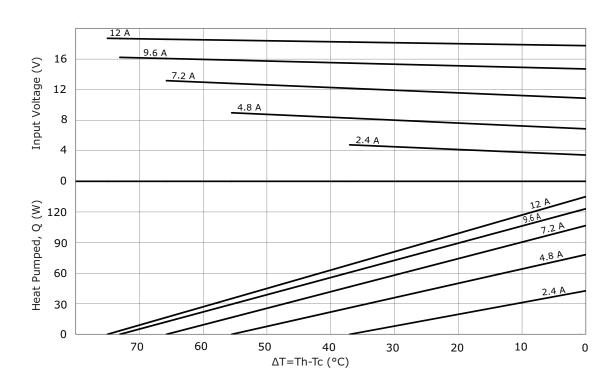


MODEL NO.	LENGTH	WIDTH	THICKNESS
	(mm)	(mm)	(mm)
CP124159365	41.5 ±0.3	59 ±0.3	3.65 ±0.1

CP124159365 PERFORMANCE (Th=27°C)



CP124159365 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date
1.0	initial release	10/22/2019
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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Mouser Electronics

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CUI Devices:

CP124159365