Additional Resources: Product Page



SERIES: CP180 | DESCRIPTION: PELTIER MODULE

FEATURES

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



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MODEL	input	input	internal	output		output	
	voltage¹	current²	resistance ³	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)
CP185039	15.4	18	0.66	157	172	68	75

1. Maximum voltage at Δ T max and T_h=27°C 2. Maximum current to achieve Δ T max Notes:

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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=0W (ΔT max measured in a vacuum at 1.3 Pa)

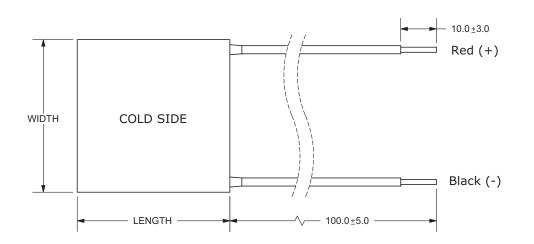
SPECIFICATIONS

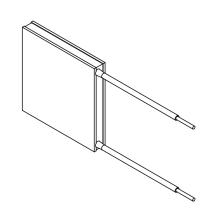
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parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
RoHS	VES				

MECHANICAL DRAWING

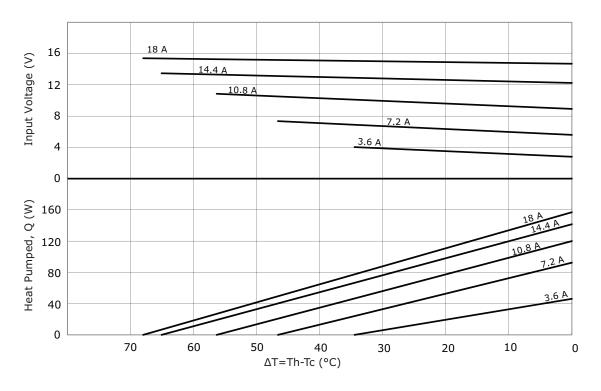




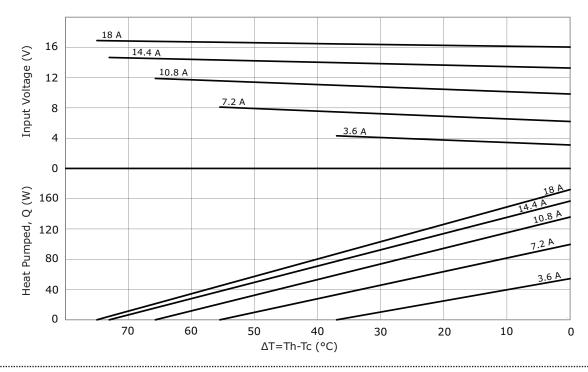


MODEL NO.	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CP185039	50 ±0.3	50 ±0.3	3.9 ±0.025

CP185039 PERFORMANCE (Th=27°C)



CP185039 PERFORMANCE (Th=50°C)



REVISION HISTORY

rev.	description	date	
1.0	initial release	10/17/2019	
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.

same sky

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Mouser Electronics

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CUI Devices:

CP185039