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same sky

Additional Resources: Product Page | 3D Model

MODEL: CPM-2C | DESCRIPTION: PELTIER COOLING UNIT

FEATURES

- arcTEC™ structure
- easy installation
- tight seal structure for water resistance and absorption of thermal stress
- wide ΔT max
- precise temperature control

RoHS

MODEL

MODEL	input voltage[1] max (V)	input current max (A)	output Qmax[2] T_h=50°C (W)	output ΔTmax[2] T_h=50°C (°C)
CPM-2C	12	7	43	85.9

Notes: 1. at inverse voltage, "cold side plate" becomes hot side plate
2. maximum cooling capacity at I_{max}, V_{max}, and ΔT=0°C
3. maximum temperature difference at I_{max}, V_{max}, and Q=0W (maximum parameters are measured in a vacuum)

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
internal resistance[4]		1.48		1.82	Ω
cold side plate		-20		60	°C

Notes: 4. measured by AC 4-terminal method at 25°C

SAFETY & COMPLIANCE

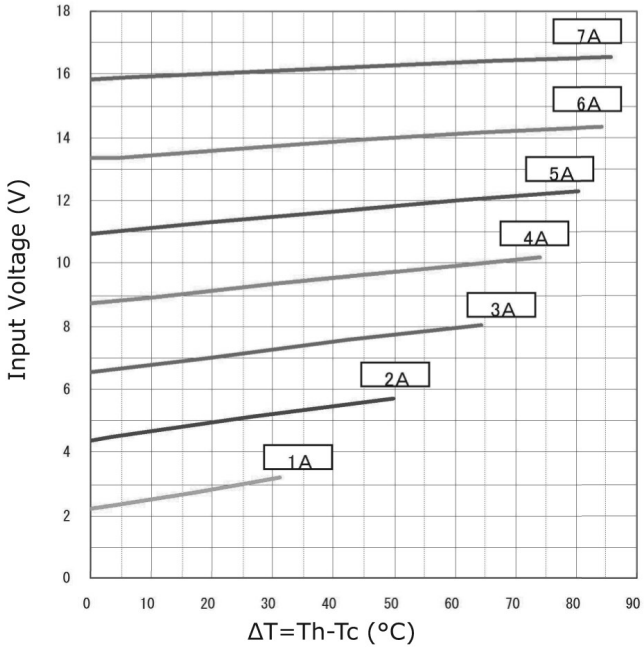
parameter	conditions/description	min	typ	max	units
isolation voltage	for 1 second			1,200	Vac
insulation resistance	input to output at 250 Vdc	10			MΩ
RoHS	yes				

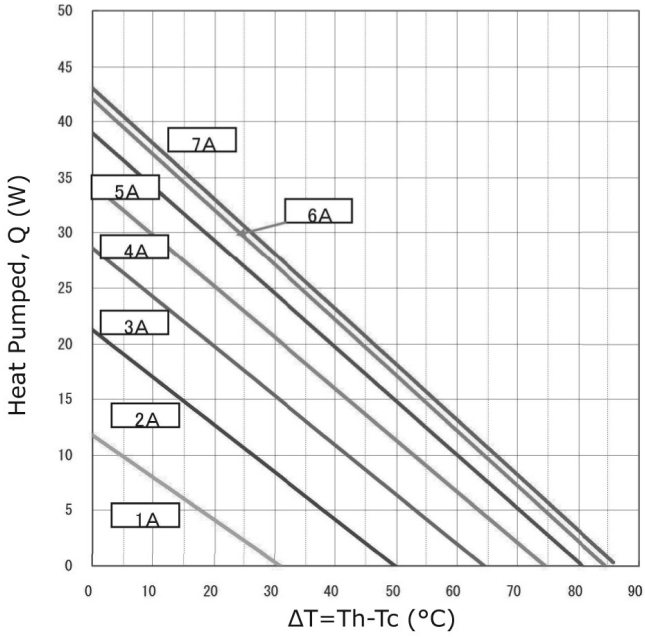
ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		35	°C
storage temperature		-20		70	°C
operating humidity		30		85	%
storage humidity		10		90	%

For further information and product selection refer to peltier applicaftion notes.pdf

CPM-2C PERFORMANCE (Th=50°C)





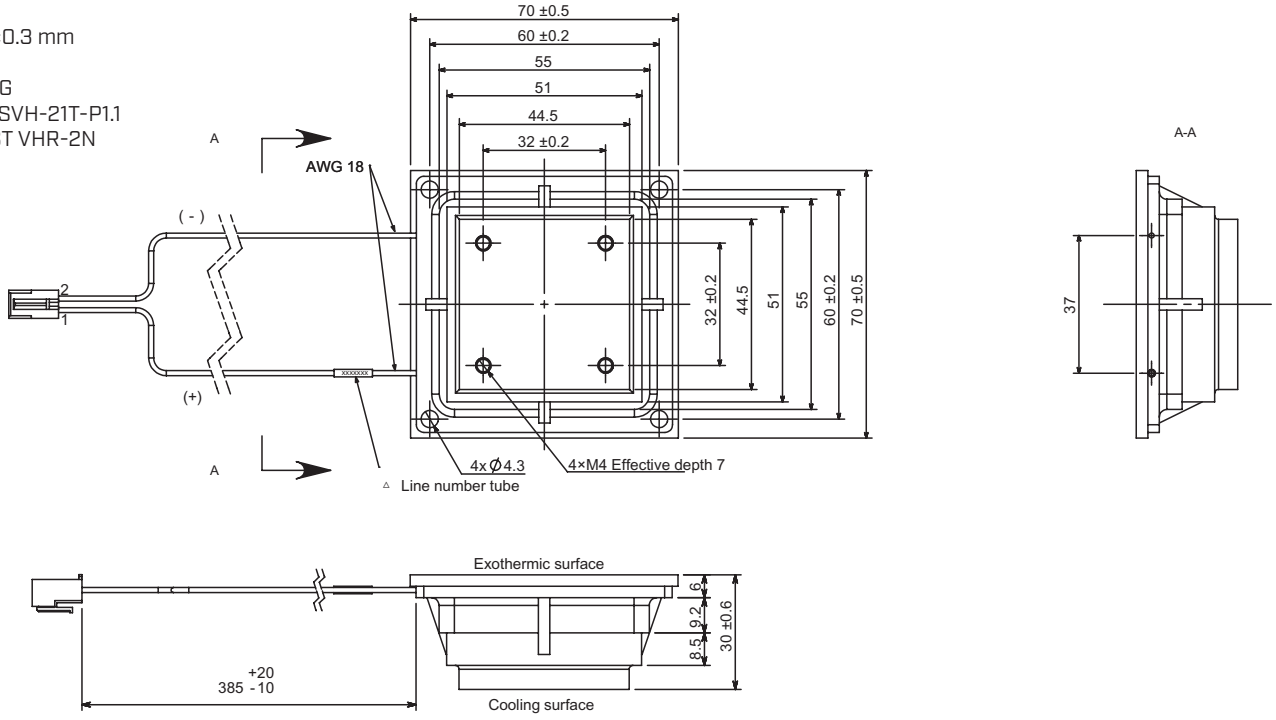
MECHANICAL

parameter	conditions/description	min	typ	max	units
weight			220		g
cooling medium	aluminum				
heat radiation medium	aluminum				

MECHANICAL DRAWING

units: mm
tolerance: ±0.3 mm

wire: 18 AWG
connector: SVH-21T-P1.1
housing: JST VHR-2N



REVISION HISTORY

rev.	description	date
1.0	initial release	11/07/2019
1.01	logo, datasheet style update	08/05/2022
1.02	updated drawing	09/27/2023
1.03	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.