same sky

Additional Resources: Product Page

date 10/24/2024

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MODEL: CP100-4068 | DESCRIPTION: PELTIER MODULE

FEATURES

- arcTEC™ structure
- silicone sealed
- wide ∆T max
- · dual stage module
- precise temperature control
- solid state construction





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input voltage ¹				25.6	V
input current ²				10	А
internal resistance ³		2.07	2.30	2.53	Ω
Qmax ⁴	Th = 27°C Th = 50°C			99 109	W
Δ Tmax⁵	Th = 27°C Th = 50°C			83 93	°C
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	Ves				

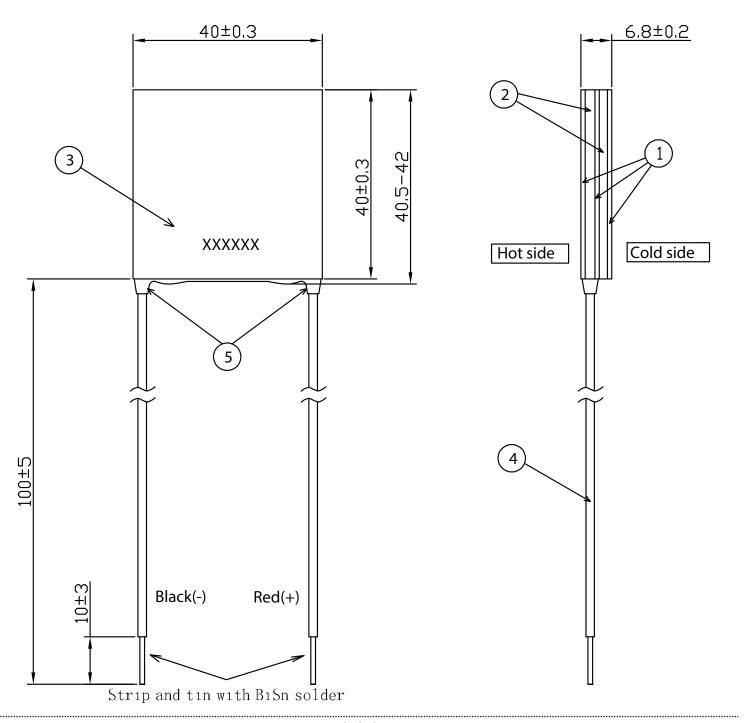
Notes:

- 1. Maximum voltage at ΔT max and T_s=27°C
- 2. Maximum current to achieve ΔT max
- 2. 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=0 W [ΔT max measured in a vacuum at 1.3 Pa]

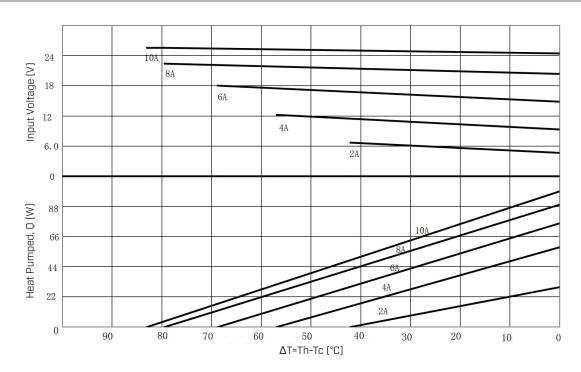
MECHANICAL DRAWING

units: mm

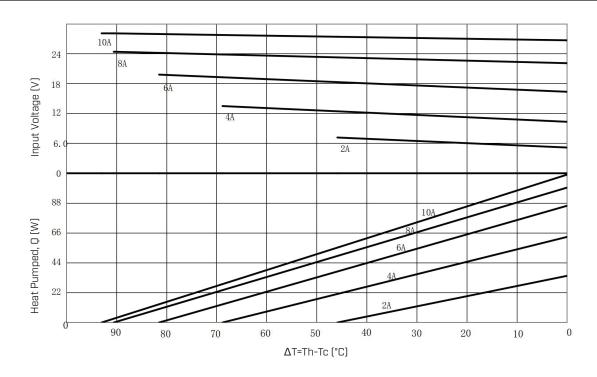
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR	
1	ceramic plate	96% AL ₂ O ₃	white	
2	sealer	silicon rubber 703 RTV (between cold ar hot side plates)		
3	marking	P/N & S/N printed on cold side surface		
4	wire leads	22 AWG (200°C max)	tin	
5	joint cover	silicon rubber 703 R	TV	



PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



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REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2024

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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