

Additional Resources: Product Page

date 10/24/2024

page 1 of 4

MODEL: CP050-102029 | DESCRIPTION: PELTIER MODULE

FEATURES

- · silicone sealed
- $\bullet \text{ wide } \Delta \text{T max}$
- low profile
- precise temperature control
- · solid state construction





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input voltage ¹				5.3	V
input current ²				5	А
internal resistance ³		0.77	0.86	0.95	Ω
Qmax⁴	Th = 27°C Th = 50°C			14.5 16.0	W
Δ Tmax⁵	Th = 27°C Th = 50°C			68 75	°C °C
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	Ves				

Notes:

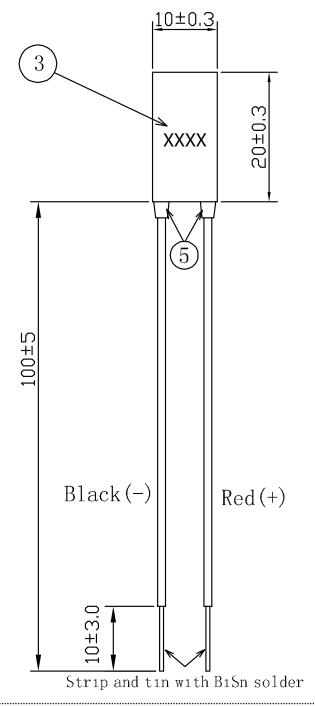
- 1. Maximum voltage at ΔT max and T_s=27°C
- 2. Maximum current to achieve ΔT max

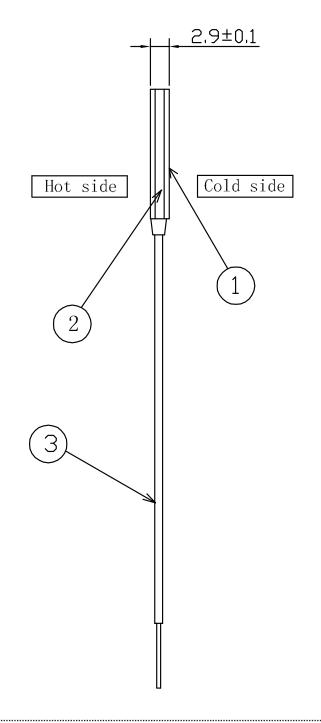
- 2. Measured by AC 4-terminal method at 25°C 4. Maximum heat absorbed at cold side occurs at $I_{max'}$ $V_{max'}$ and ΔT =0°C 5. Maximum temperature difference occurs at $I_{max'}$ $V_{max'}$ and Q=0 W [ΔT max measured in a vacuum at 1.3 Pa]

MECHANICAL DRAWING

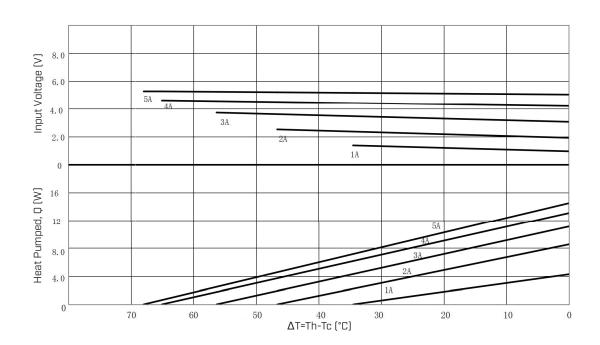
units: mm

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR	
1	ceramic plate	96% AL ₂ O ₃	white	
2	sealer silicon rubber 703 RTV (between cold and hot side plates)			
3	marking	P/N & S/N printed on cold side surface		
4	wire leads	24 AWG (200°C max)	tin	
5	joint cover	silicon rubber 703 F	RTV	

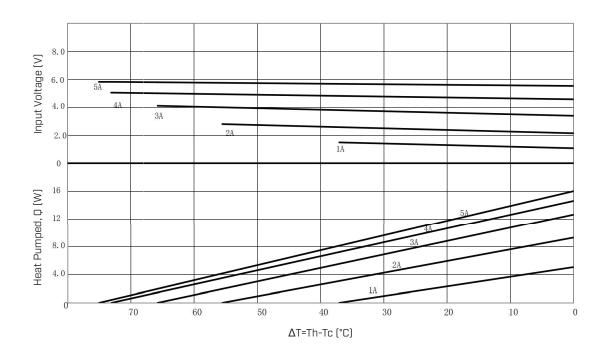




PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



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SAME SKY | MODEL: CP050-102029 | DESCRIPTION: PELTIER MODULE

date 10/24/2024 | **page** 4 of 4

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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