Additional Resources: Product Page



MODEL: CP050-102029 | DESCRIPTION: PELTIER MODULE

FEATURES

- silicone sealed
- \cdot wide Δ T max
- low profile
- precise temperature control
- solid state construction



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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 W
ΔTmax⁵	Th = 27°C Th = 50°C			68 75	С С
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	Ves				

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Notes: 1. Maximum voltage at Δ T max and T_b=27°C

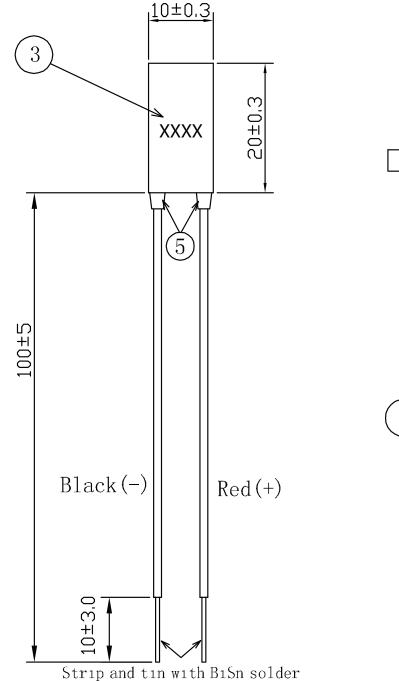
2. Maximum current to achieve $\Delta T \max^{n}$

2. Maximum current of a times at times 3. Measured by AC 4-terminal method at 25°C 4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and Δ T=0°C 5. Maximum temperature difference occurs at I_{max} , V_{max} , and Q=0 W (Δ T max measured in a vacuum at 1.3 Pa)

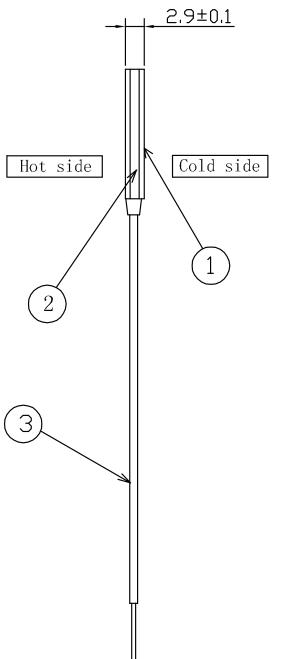
MECHANICAL DRAWING

units: mm

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

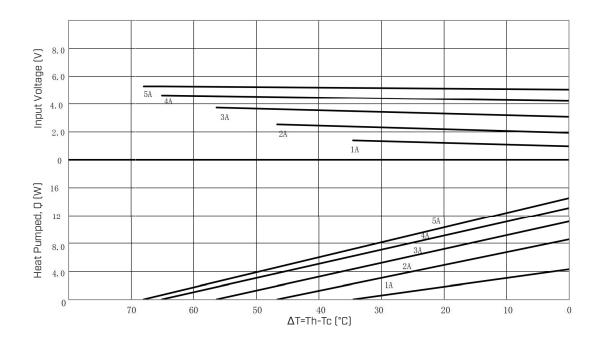


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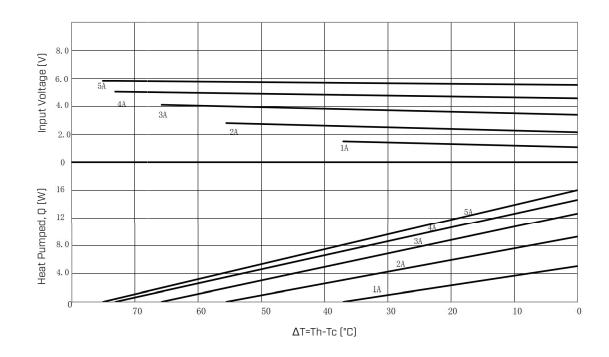
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PERFORMANCE (Th=27°C)



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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