Additional Resources: Product Page



# MODEL: CP050-153031 | DESCRIPTION: PELTIER MODULE

#### **FEATURES**

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



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### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input voltage <sup>1</sup>				12	V
input current <sup>2</sup>				5	А
internal resistance <sup>3</sup>		1.65	1.83	2.01	Ω
Qmax⁴	Th = 27°C Th = 50°C			34.6 38	W W
 ΔTmax⁵	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  $\Delta$ T max and T<sub>b</sub>=27°C

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2. Maximum current to achieve  $\Delta T$  max

2. Maximum current of a time of a t

#### **MECHANICAL DRAWING**

units: mm

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR	
1	ceramic plate	96% AL <sub>2</sub> D <sub>3</sub>	white	
2	sealer	silicon rubber 703 RTV (between cold and hot side plates)		
З	marking	P/N & S/N printed on cold side surface		
4	wire leads	24 AWG (105°C max)	tin	
5	joint cover	silicon rubber 703 R	TV	

3.1±0.1

А

7

1

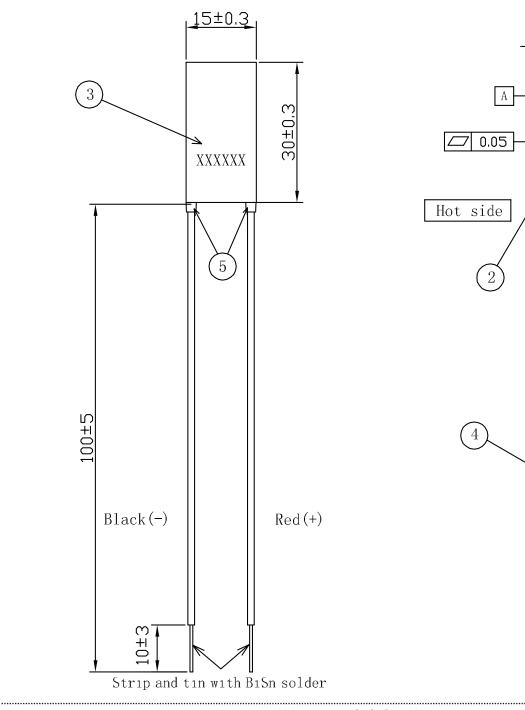
0.08

0.05

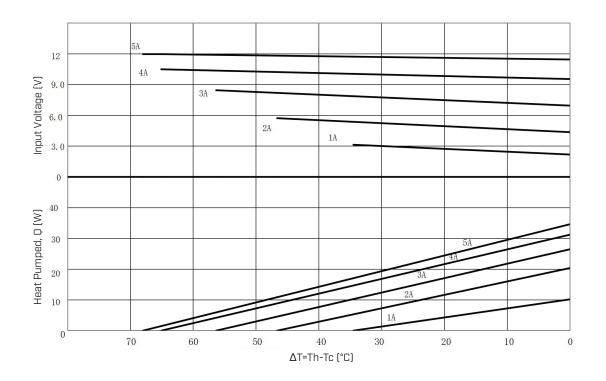
Cold side

11

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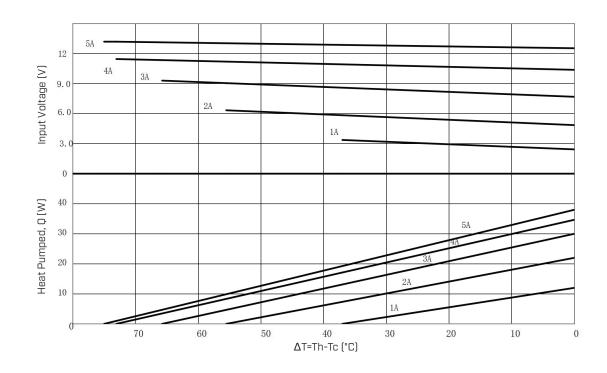


# PERFORMANCE (Th=27°C)



## 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.

# same sky

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