Additional Resources: Product Page



# MODEL: CP100-4068 | DESCRIPTION: PELTIER MODULE

#### **FEATURES**

- arcTEC™ structure
- silicone sealed
- wide  $\Delta T$  max
- dual stage module
- precise temperature control
- solid state construction



#### **SPECIFICATIONS**

| parameter                        | conditions/description                  | min  | typ  | max       | units    |
|----------------------------------|---|------|------|-----------|----------|
| input voltage <sup>1</sup>       |   |      |      | 25.6      | V        |
| input current <sup>2</sup>       |   |      |      | 10        | А        |
| internal resistance <sup>3</sup> |   | 2.07 | 2.30 | 2.53      | Ω        |
| Qmax⁴                            | Th = 27°C<br>Th = 50°C                  |      |      | 99<br>109 | W<br>W   |
| ΔTmax⁵                           | Th = 27°C<br>Th = 50°C                  |      |      | 83<br>93  | °C<br>°C |
| solder melting temperature       | connection between thermoelectric pairs | 235  |      |           | °C       |
| assembly compression             |   |      |      | 1         | MPa      |
| hot side plate                   |   |      |      | 100       | °C       |
| RoHS                             | Ves                                     |      |      |           |          |

RoHS

1. Maximum voltage at  $\Delta$ T max and T<sub>b</sub>=27°C Notes:

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

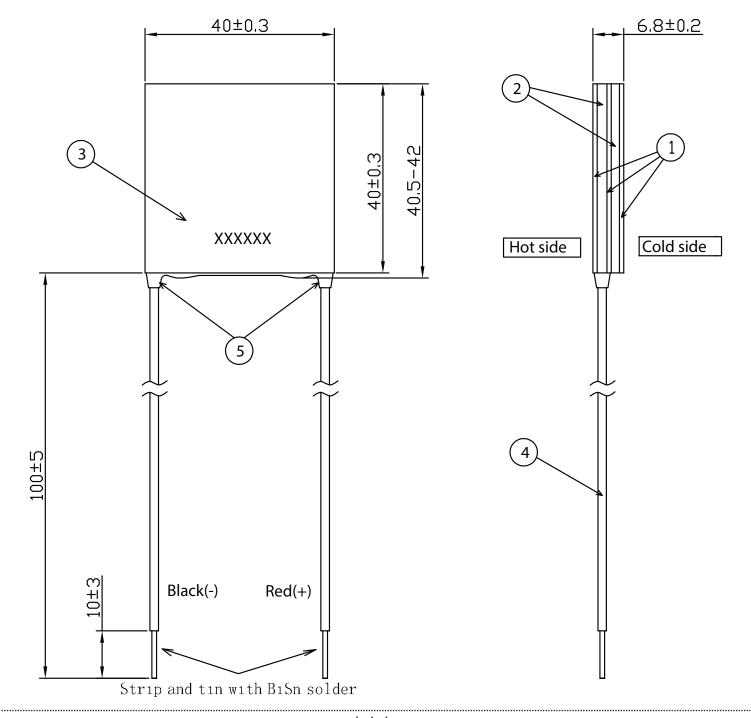
2. Maximum current of a time of a t

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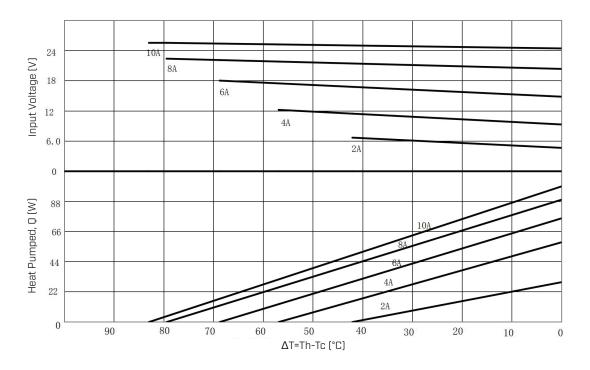
#### **MECHANICAL DRAWING**

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<br>hot side plates) | silicon rubber 703 RTV (between cold and hot side plates) |  |  |
| З    | marking       | P/N & S/N printed                      | l on cold side surface                                    |  |  |
| 4    | wire leads    | 22 AWG (200°C<br>max)                  | tin   |  |  |
| 5    | joint cover   | silicon rubber 703                     | 3 RTV   |  |  |

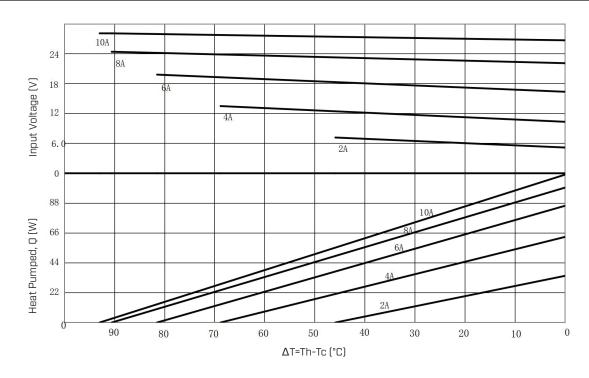


## PERFORMANCE (Th=27°C)



### **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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