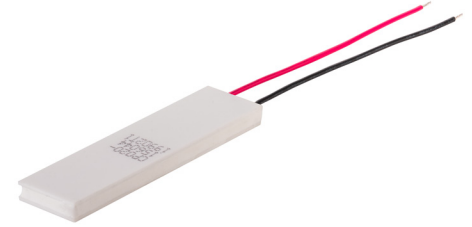



MODEL: CP020-156044 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- arcTEC™ structure
- silicone sealed
- wide ΔT max
- low profile
- precise temperature control
- solid state construction


SPECIFICATIONS

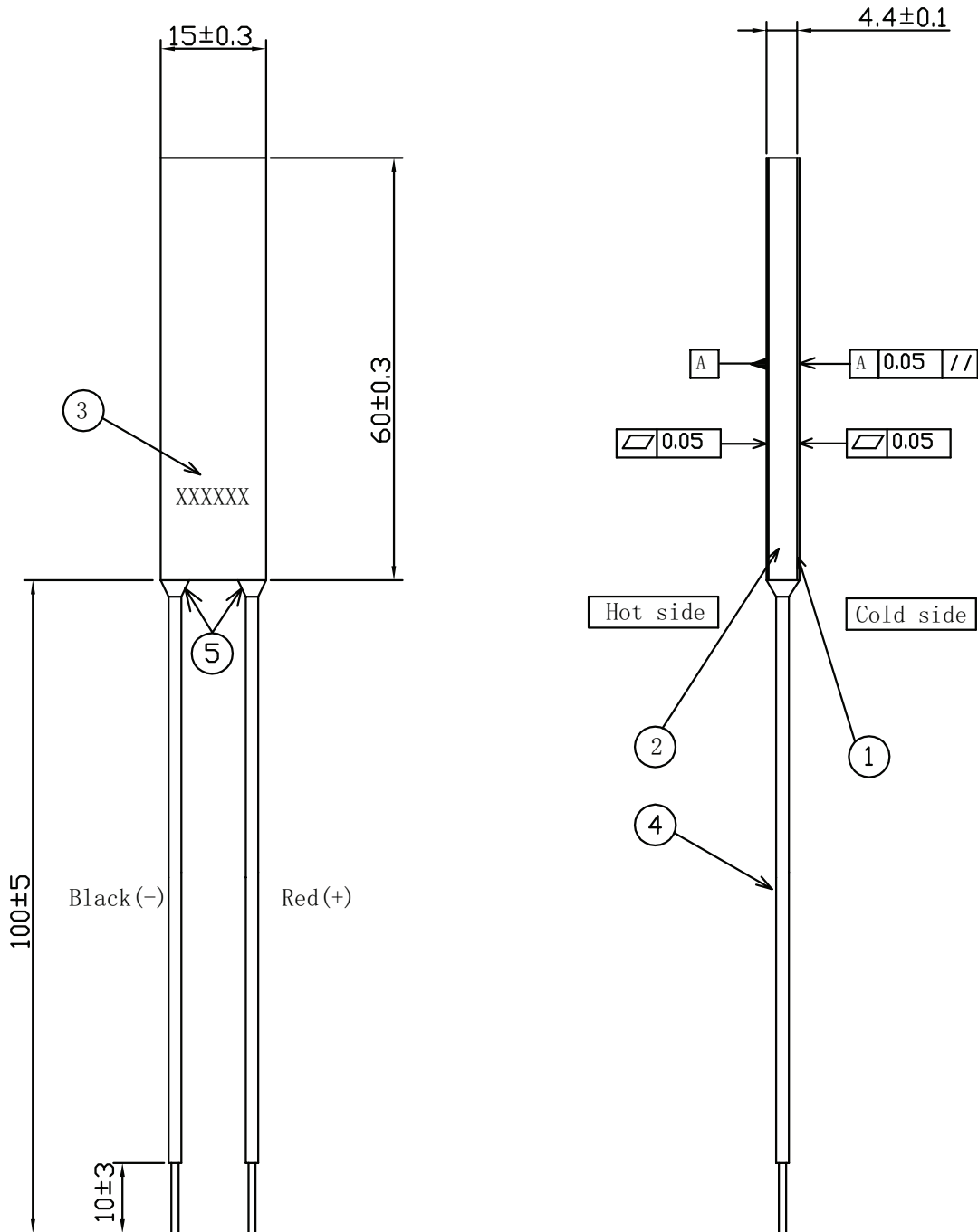
| parameter | conditions/description | min | typ | max | units |
|----------------------------------|---|-------|-------|-------|----------|
| input voltage ¹ | | | | 24.1 | V |
| input current ² | | | | 2 | A |
| internal resistance ³ | | 10.20 | 10.70 | 11.20 | Ω |
| Q_{max} ⁴ | Th = 27°C | | | 25 | W |
| | Th = 50°C | | | 27 | W |
| ΔT_{max} ⁵ | Th = 27°C | | | 70 | °C |
| | Th = 50°C | | | 77 | °C |
| solder melting temperature | connection between thermoelectric pairs | 235 | | | °C |
| assembly compression | | | | 1 | MPa |
| hot side plate | | | | 100 | °C |
| RoHS | yes | | | | |

- Notes:
1. Maximum voltage at ΔT max and $T_c=27^\circ\text{C}$
 2. Maximum current to achieve ΔT max
 3. Measured by AC 4-terminal method at 25°C
 4. Maximum heat absorbed at cold side occurs at I_{max} , V_{max} , and $\Delta T=0^\circ\text{C}$
 5. Maximum temperature difference occurs at I_{max} , V_{max} , and $Q=0$ W (ΔT max measured in a vacuum at 1.3 Pa)

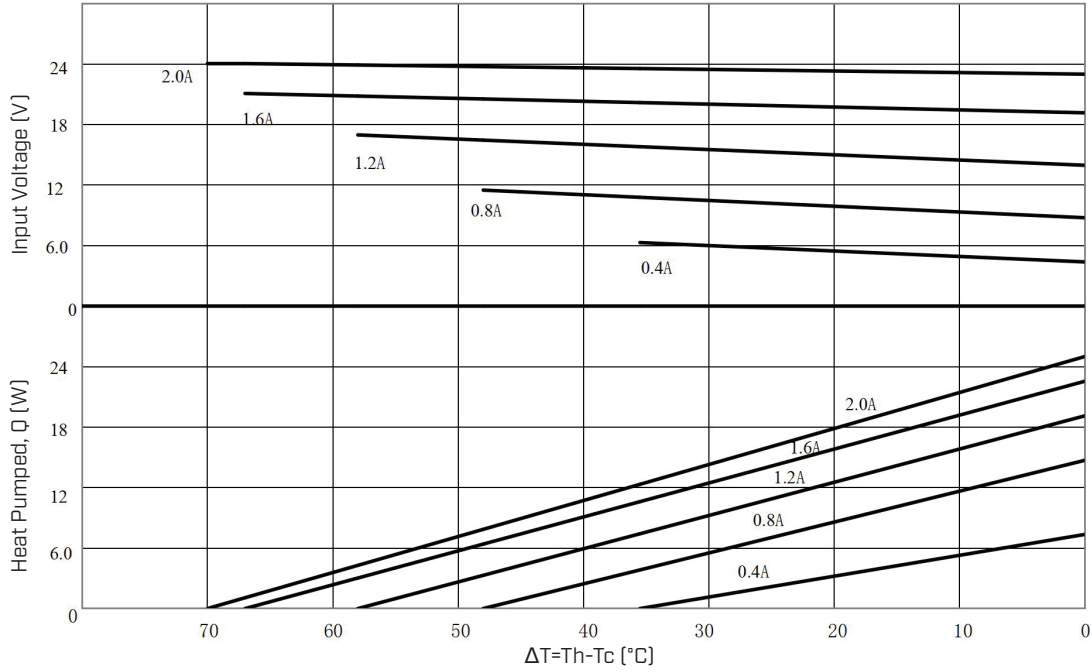
MECHANICAL DRAWING

units: mm

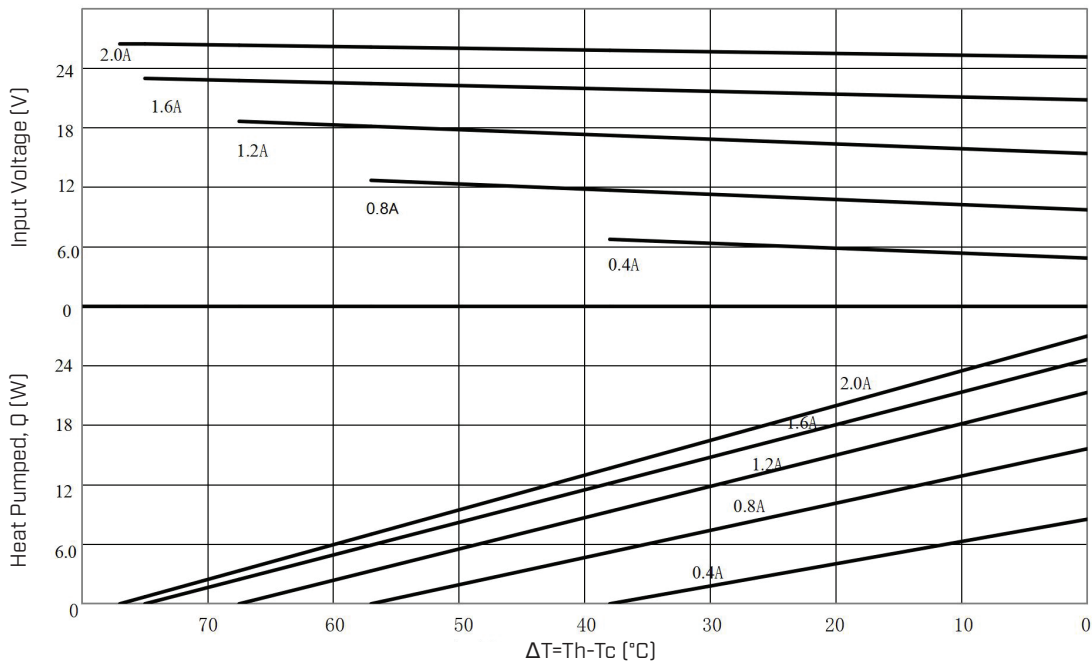
| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|---------------|---|---------------|
| 1 | ceramic plate | 96% Al_2O_3 | white |
| 2 | sealer | silicon rubber 703 RTV (between cold and hot side plates) | |
| 3 | marking | P/N & S/N printed on cold side surface | |
| 4 | wire leads | 22 AWG (105°C max) | tin |
| 5 | joint cover | silicon rubber 703 RTV | |



PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 10/16/2024 |

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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