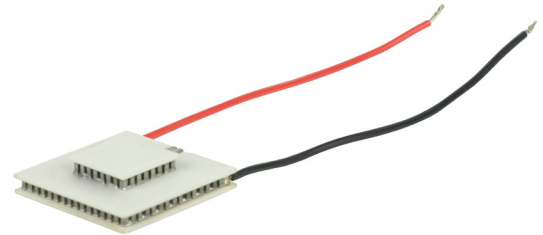




SERIES: CP28-2 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- solid state device
- 2-stage cooler
- precise temperature control
- quiet operation

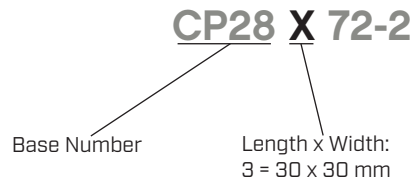


MODEL

| | input voltage ¹ | input current ² | output Qmax ³ | | output ΔTmax ⁴ | |
|-----------|----------------------------|----------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| | max [Vdc] | max [A] | T _h =27°C [W] | T _n =50°C [W] | T _h =27°C [°C] | T _n =50°C [°C] |
| CP28372-2 | 15.7 | 2.8 | 8.7 | 9.6 | 95 | 105 |

- Notes:
1. Maximum voltage at ΔT max and T_n=27°C
 2. Maximum current to achieve ΔT max
 3. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
 4. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=DW (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY



SPECIFICATIONS

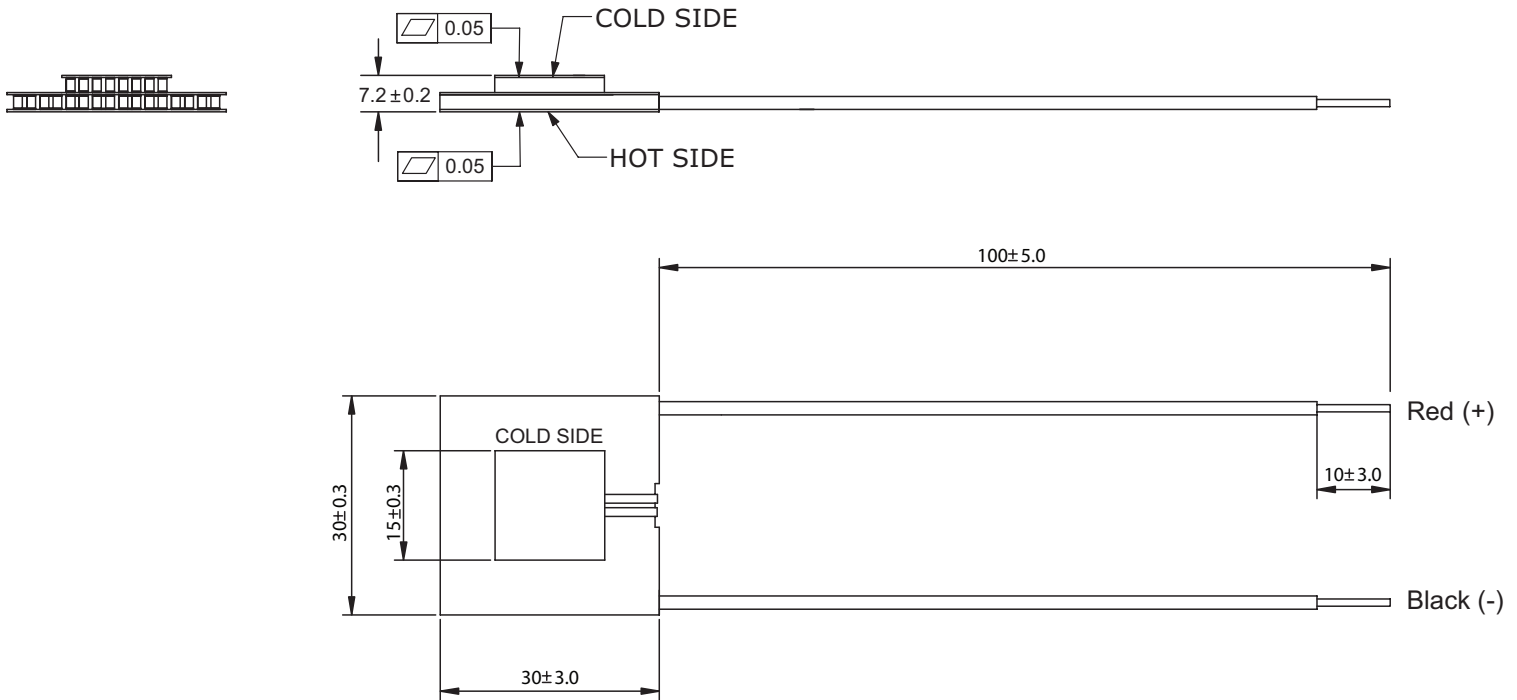
| parameter | conditions/description | min | typ | max | units |
|----------------------------------|---|-----|-----|-----|-------|
| internal resistance ¹ | | 4.5 | 5.0 | 5.5 | Ω |
| solder melting temperature | connection between thermoelectric pairs | 138 | | | °C |
| assembly compression | | | | 1 | MPa |
| hot side plate | | | | 80 | °C |
| RoHS | yes | | | | |

Note: 1. Measured by AC 4-terminal method at 25°C

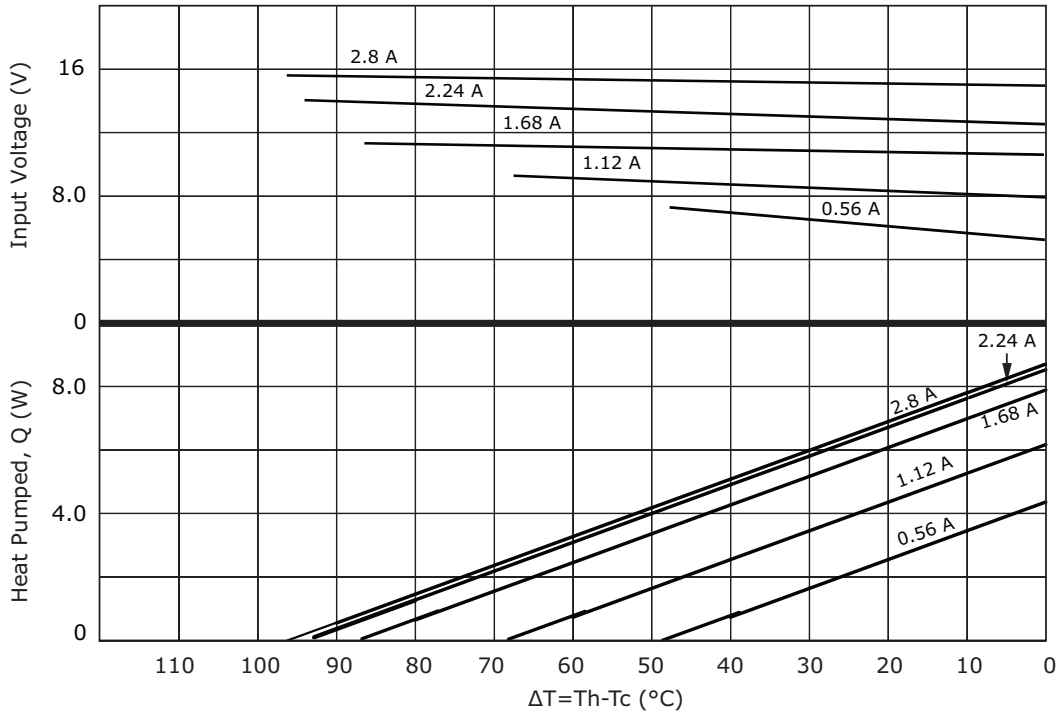
MECHANICAL DRAWING

units: mm

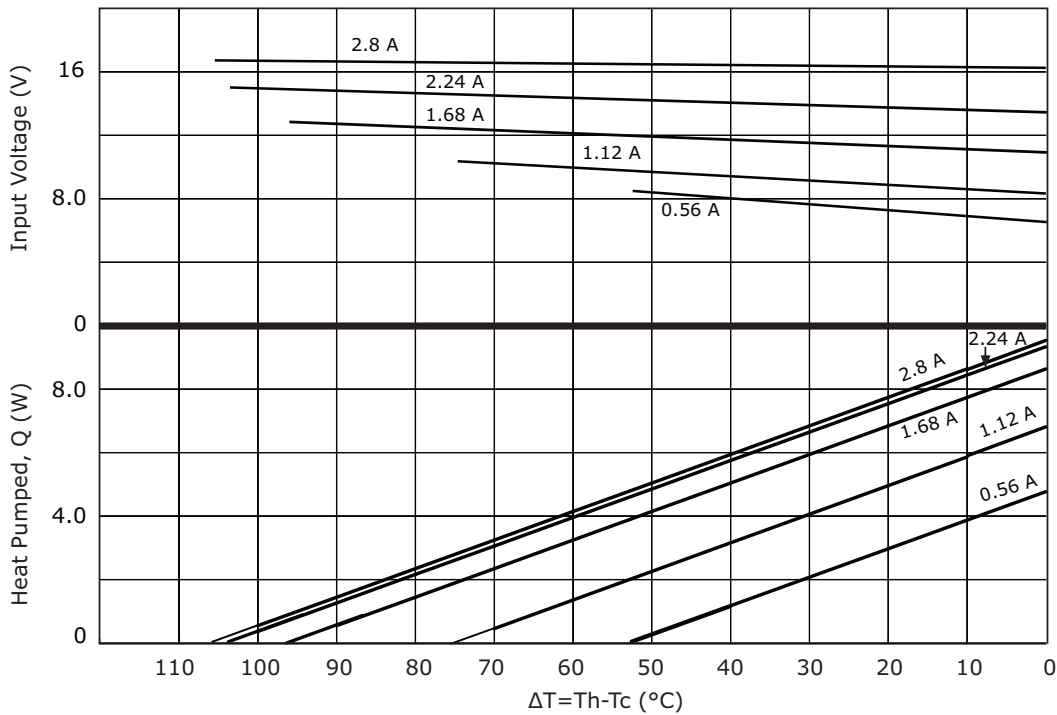
| | MATERIAL | PLATING |
|---------------|--|---------|
| ceramic plate | 96% AL ₂ O ₃ | |
| wire leads | 22 AWG | tin |
| sealer | no sealer | |
| marking | P/N & S/N printed on cold side surface | |



PERFORMANCE (Th=27°C)



PERFORMANCE (Th=50°C)



REVISION HISTORY

| | | |
|------|-----------------------------------|------------|
| 1.0 | initial release | 09/12/2016 |
| 1.01 | brand update | 10/30/2019 |
| 1.02 | logo, datasheet style update | 08/05/2022 |
| 1.03 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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 reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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