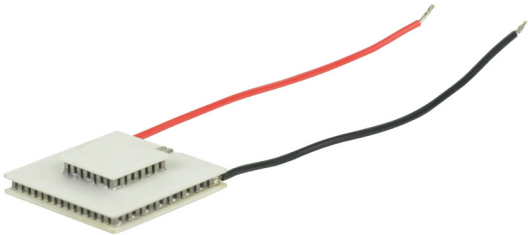


SERIES: CP28-2 | DESCRIPTION: PELTIER MODULE

FEATURES

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

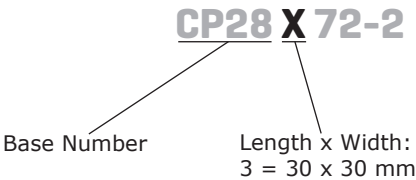


MODEL

| MODEL     | input<br>voltage <sup>1</sup><br>max<br>(Vdc) | input<br>current <sup>2</sup><br>max<br>(A) | output<br>Qmax <sup>3</sup> |                             | output<br>ΔTmax <sup>4</sup> |                              |
|-----------|-----------------------------------------------|---------------------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
|           |                                               |                                             | T <sub>h</sub> =27°C<br>(W) | T <sub>h</sub> =50°C<br>(W) | T <sub>h</sub> =27°C<br>(°C) | T <sub>h</sub> =50°C<br>(°C) |
| CP28372-2 | 15.7                                          | 2.8                                         | 8.7                         | 9.6                         | 95                           | 105                          |

- Notes:
1. Maximum voltage at ΔT max and T<sub>h</sub>=27°C
  2. Maximum current to achieve ΔT max
  3. Maximum heat absorbed at cold side occurs at I<sub>max</sub>, V<sub>max</sub>, and ΔT=0°C
  4. Maximum temperature difference occurs at I<sub>max</sub>, V<sub>max</sub>, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

PART NUMBER KEY



SPECIFICATIONS

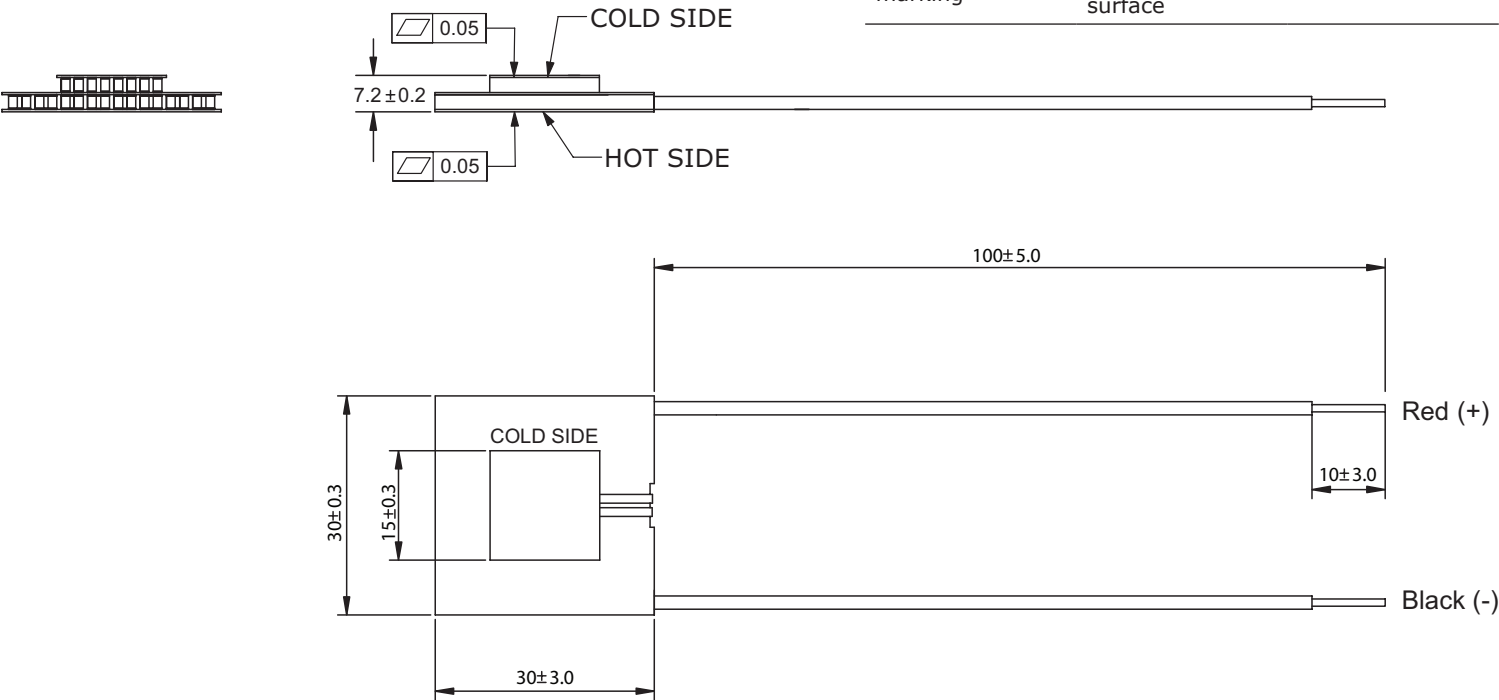
| parameter                        | conditions/description                  | min | typ | max | units |
|----------------------------------|-----------------------------------------|-----|-----|-----|-------|
| internal resistance <sup>1</sup> |                                         | 4.5 | 5.0 |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

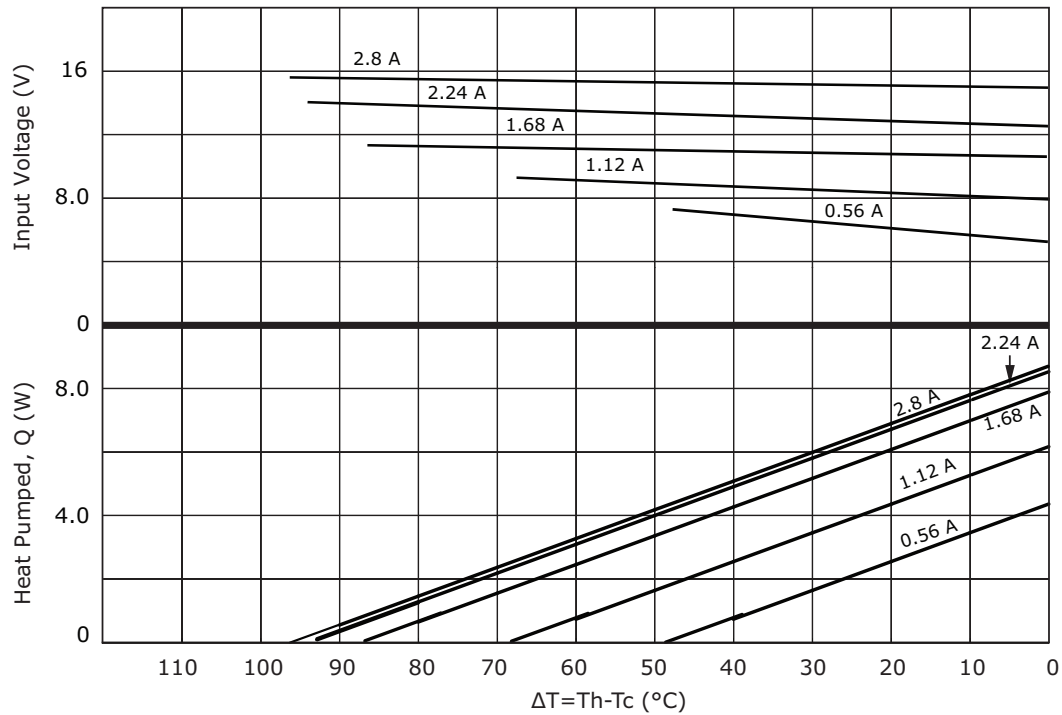
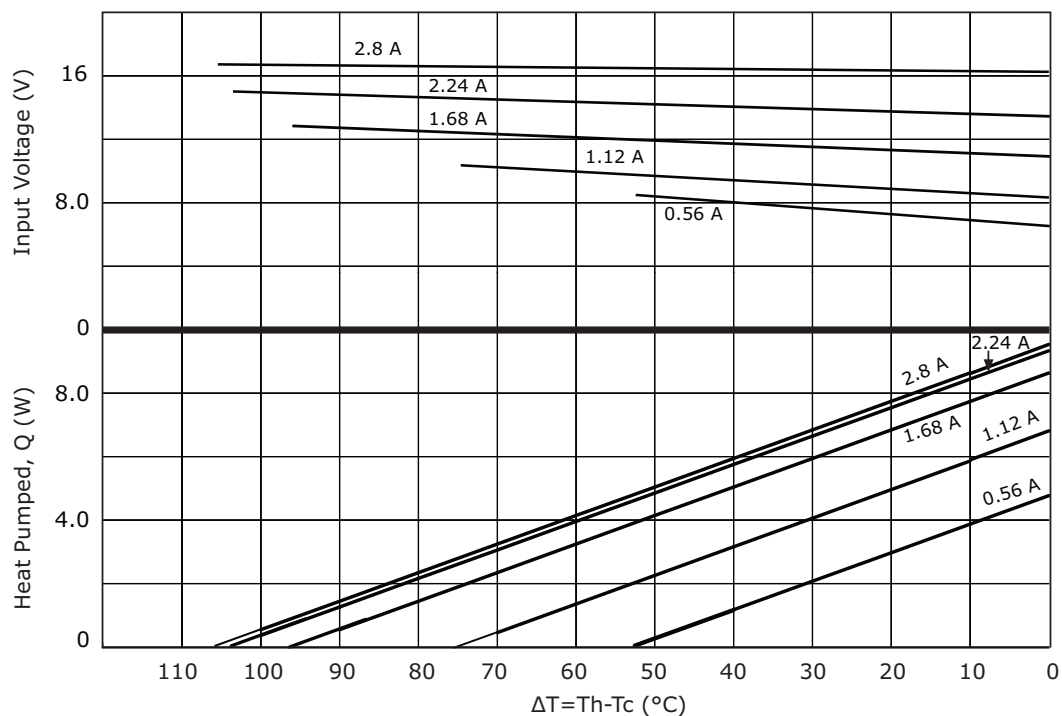
Note: 1. Measured by AC 4-terminal method at 25°C

MECHANICAL DRAWING

units: mm

|               | MATERIAL                               | PLATING |
|---------------|----------------------------------------|---------|
| ceramic plate | 96% AL <sub>2</sub> O <sub>3</sub>     |         |
| 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

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 09/12/2016 |
| 1.01 | brand update    | 10/30/2019 |

The revision history provided is for informational purposes only and is believed to be accurate.

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# CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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