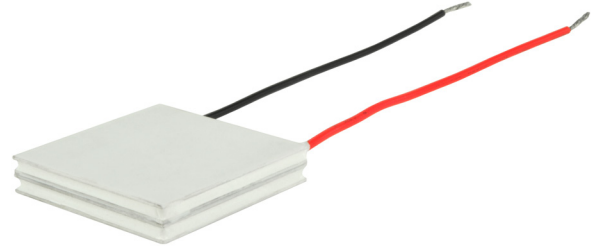


SERIES: CP68H-2 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- arcTEC™ structure
- solid state device
- 2-stage cooler
- precise temperature control
- silent operation



MODEL

| MODEL | input voltage ¹ max (Vdc) | input current ² max (A) | internal resistance ³ typ (Ω±10%) | output Qmax ⁴ | | output ΔTmax ⁵ | |
|------------|--------------------------------------------|------------------------------------------|----------------------------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| | | | | T _h =27°C (W) | T _h =50°C (W) | T _h =27°C (°C) | T _h =50°C (°C) |
| CP68475H-2 | 16 | 6.8 | 2.12 | 40 | 45 | 85 | 95 |

- Notes:
1. Maximum voltage at ΔT max and T_h=27°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 ΔT=0°C
 5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT max measured in a vacuum at 1.3 Pa)

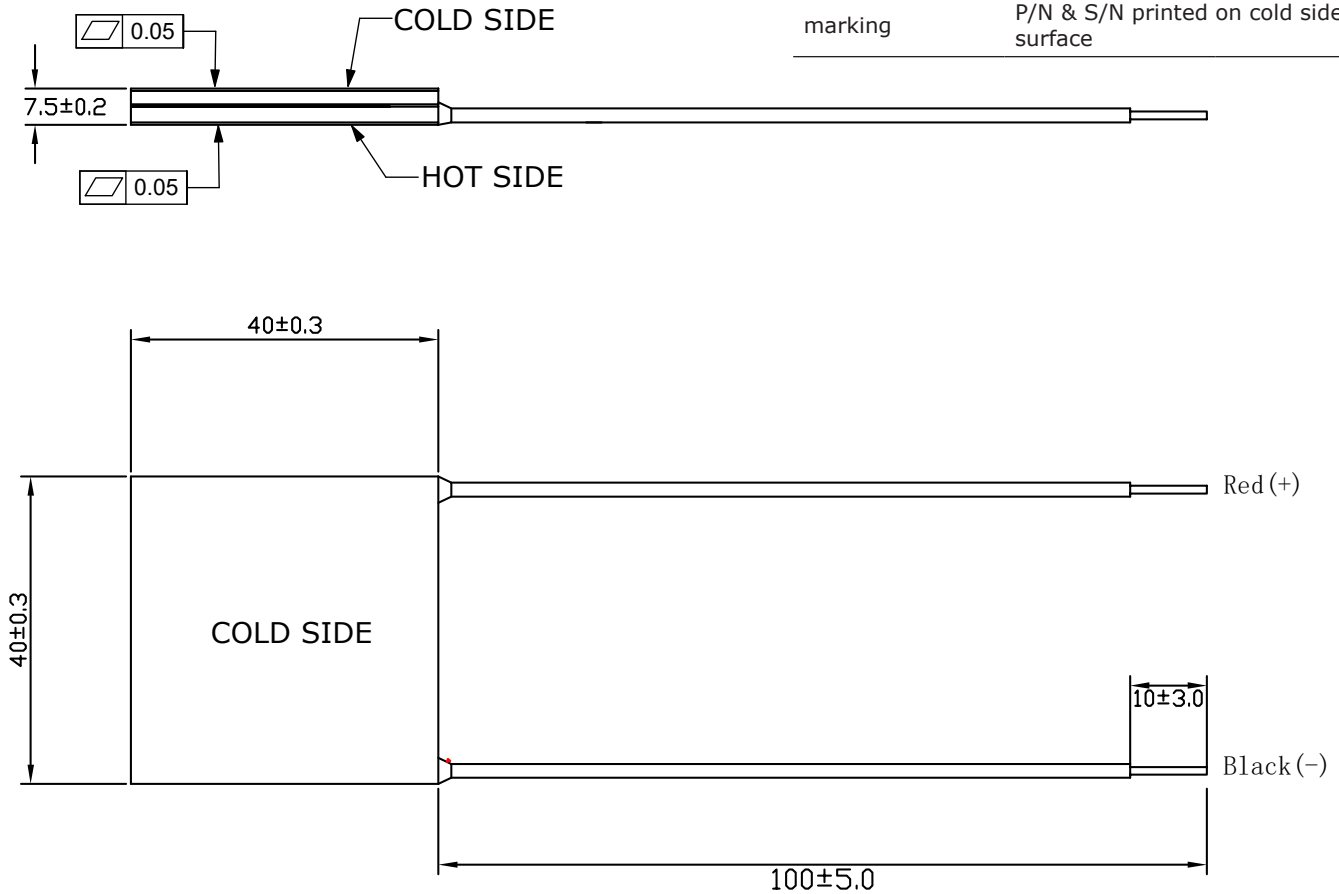
SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|-----------------------------------------|-----|-----|-----|-------|
| solder melting temperature | connection between thermoelectric pairs | 235 | | | °C |
| assembly compression | | | | 1 | MPa |
| hot side plate | | | | 100 | °C |
| RoHS | 2011/65/EU | | | | |

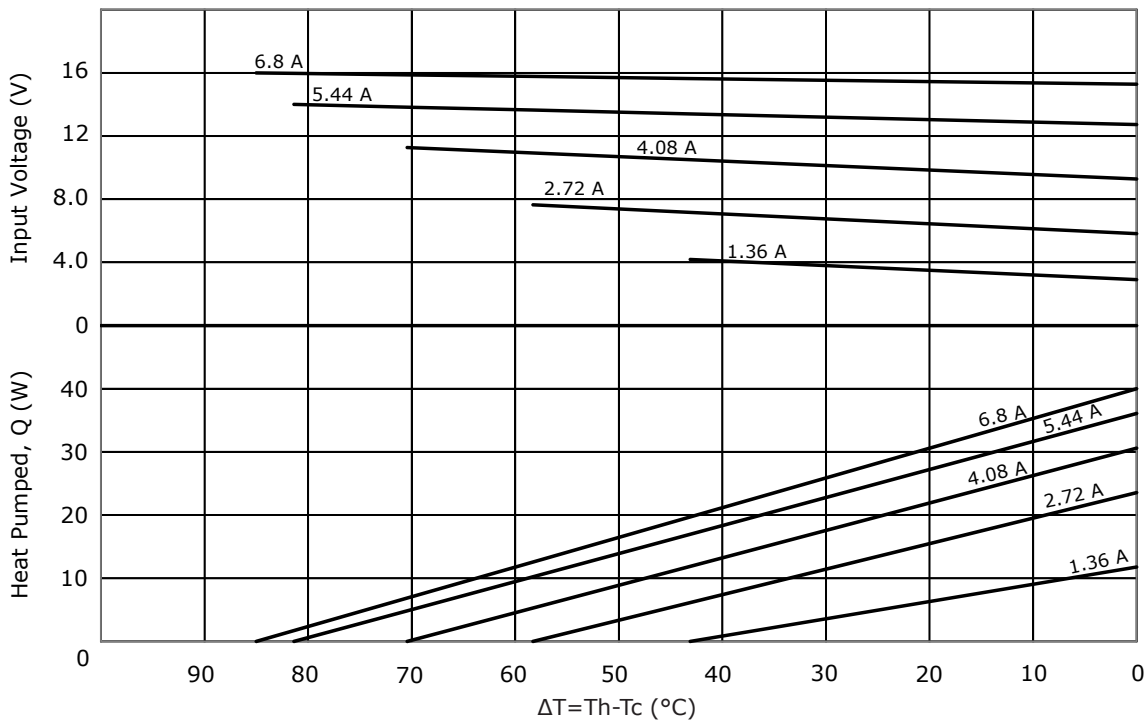
MECHANICAL DRAWING

units: mm

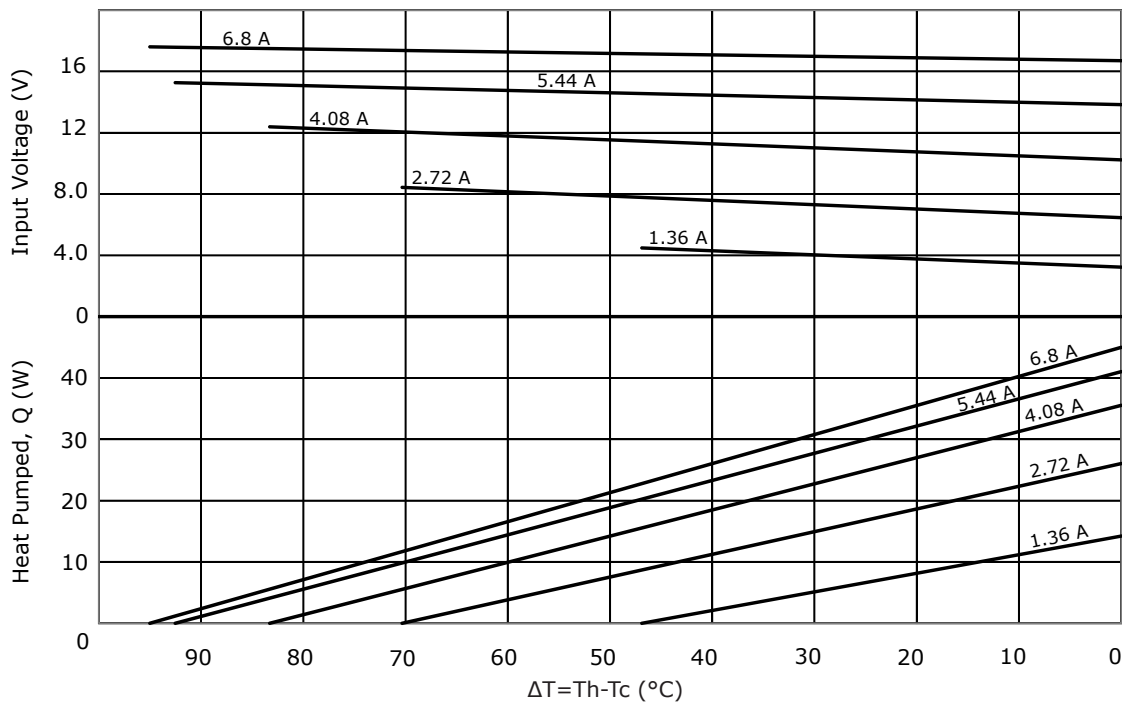
| | MATERIAL | PLATING |
|---------------|-----------------------------------------------------------|---------|
| ceramic plate | 96% AL ₂ O ₃ | |
| wire leads | 20 AWG | tin |
| sealer | silicon rubber 703 RTV (between cold and hot side plates) | |
| joint cover | silicon rubber 703 RTV | |
| marking | 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 | 05/21/2018 |

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



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

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