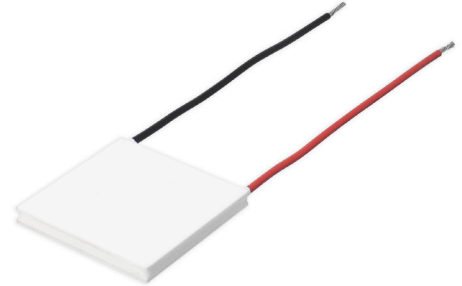


SERIES: CP200 | **DESCRIPTION:** PELTIER MODULE

FEATURES

- arcTEC™ structure
- enhanced reliability for high thermal cycling
- high I_{max} rating of 20 A
- silicon sealed
- wide ΔT_{max}
- precise temperature control
- solid state construction


MODEL

| | input voltage ¹ | input current ² | internal resistance ³ | output Q _{max} ⁴ | | output ΔT _{max} ⁵ | |
|-------------|----------------------------|----------------------------|----------------------------------|--------------------------------------|-----------------------------|---------------------------------------|------------------------------|
| | max [Vdc] | max [A] | typ [Ω±10%] | T _n =27°C [W] | T _n =50°C [W] | T _h =27°C [°C] | T _h =50°C [°C] |
| CP200543636 | 8.5 | 20 | 0.33±0.05 | 96 | 105 | 70 | 77 |

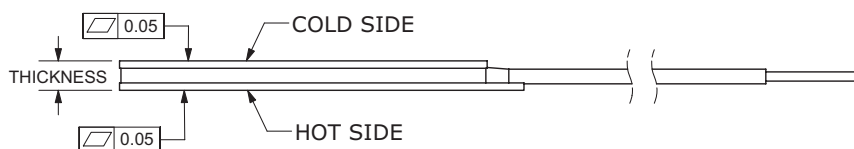
Notes: 1. Maximum voltage at ΔT_{max} and T_n=27°C
 2. Maximum current to achieve ΔT_{max}
 3. Measured by AC 4-terminal method at 25°C
 4. Maximum heat absorbed at cold side occurs at I_{max}, V_{max}, and ΔT=0°C
 5. Maximum temperature difference occurs at I_{max}, V_{max}, and Q=0W (ΔT_{max} measured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

SPECIFICATIONS

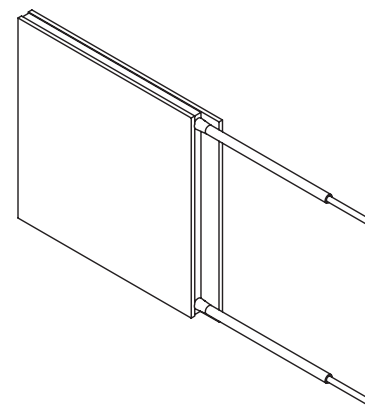
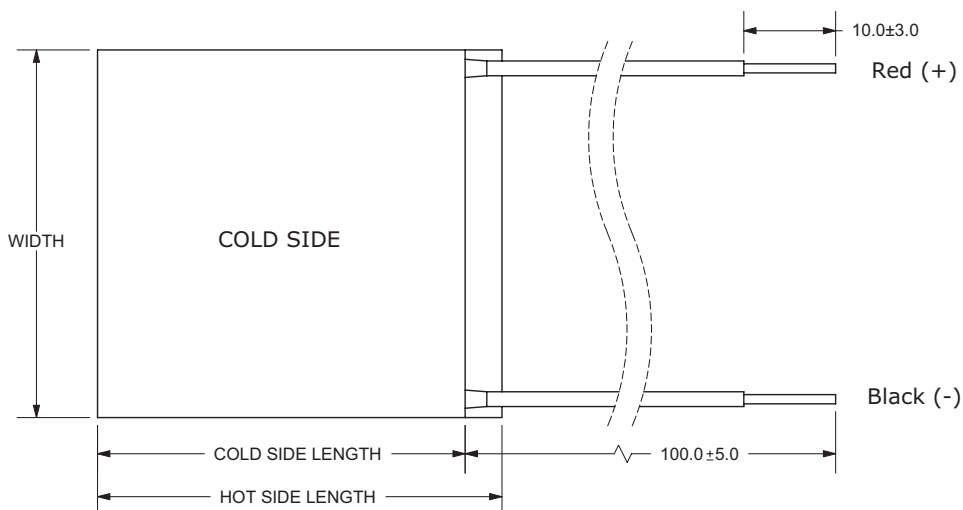
| parameter | conditions/description | min | typ | max | units |
|----------------------------|---|-----|-----|-----|-------|
| solder melting temperature | connection between thermoelectric pairs | 235 | | | °C |
| assembly compression | | | | 1 | MPa |
| RoHS | yes | | | | |

MECHANICAL DRAWING

units: mm

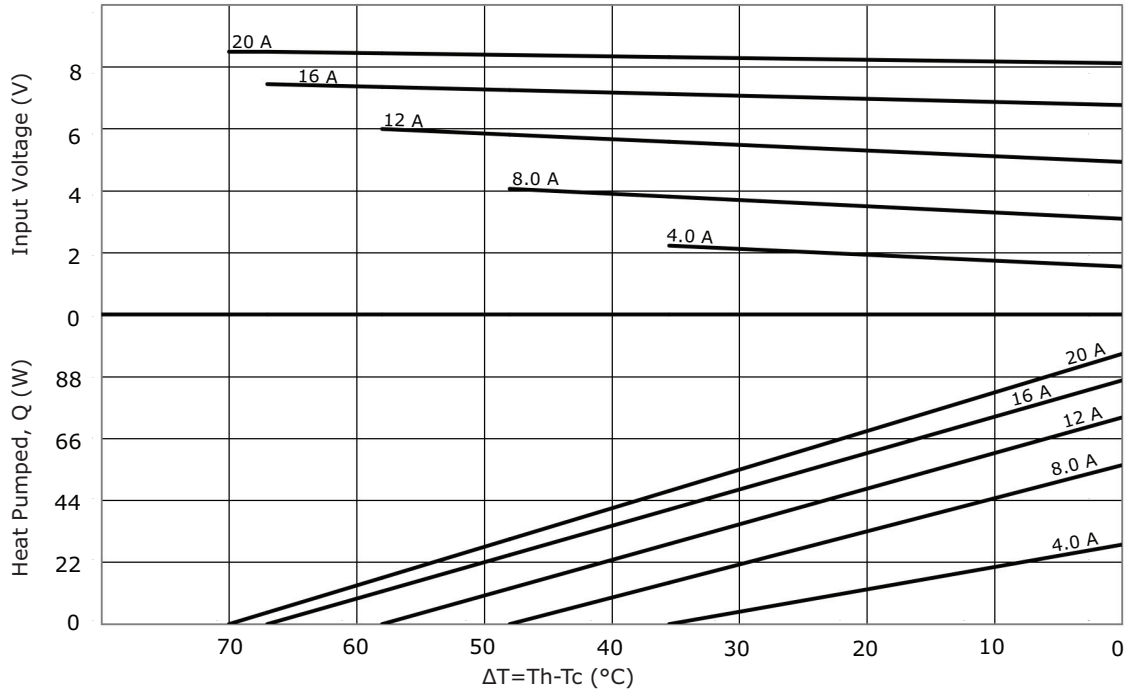


| | MATERIAL | PLATING |
|---------------|---|---------|
| ceramic plate | 96% AL ₂ O ₃ | |
| wire leads | 18 AWG | tin |
| sealer | silicon rubber 703 RTV [between cold and hot side plates] | |
| joint cover | silicon rubber 703 RTV | |
| marking | P/N & S/N printed on cold side surface | |

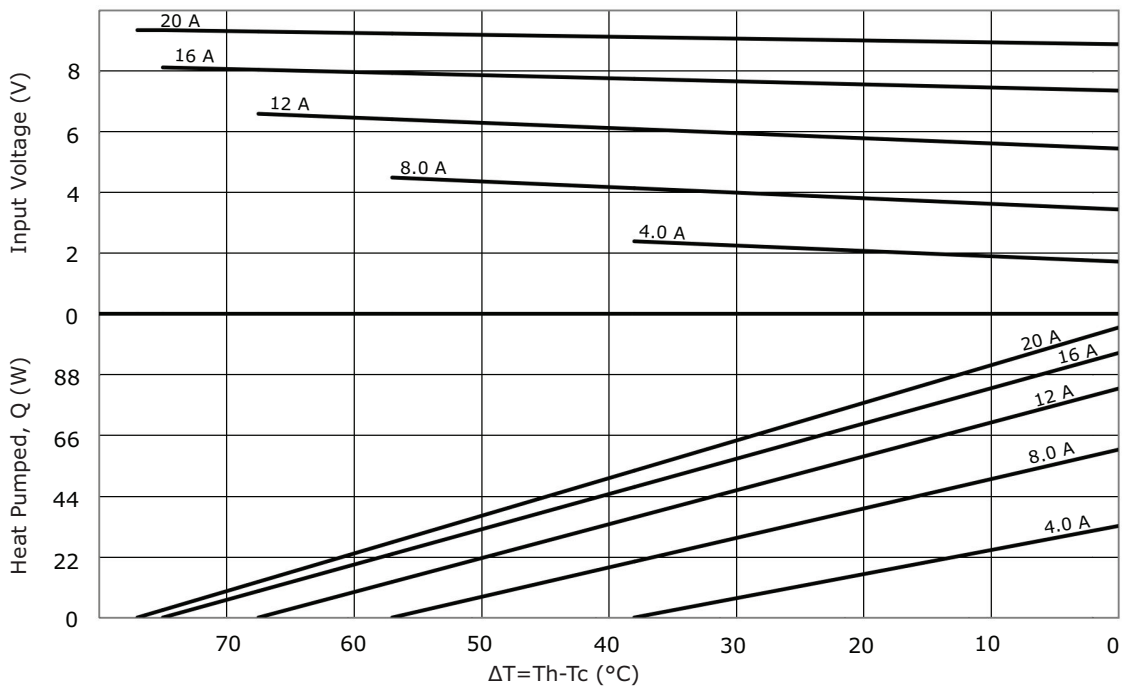


| MODEL NO. | HOT SIDE LENGTH [mm] | COLD SIDE LENGTH [mm] | WIDTH [mm] | THICKNESS [mm] |
|-------------|----------------------|-----------------------|------------|----------------|
| CP200543636 | 54 ±0.3 | 50 ±0.3 | 36 ±0.3 | 3.6 ±0.025 |

CP200543636 PERFORMANCE (Th=27°C)



CP200543636 PERFORMANCE (Th=50°C)



REVISION HISTORY

| rev. | description | date |
|------|------------------------------|------------|
| 1.0 | initial release | 11/12/2020 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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

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