**SERIES:** CP36H-2 | **DESCRIPTION:** PELTIER MODULE

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

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**MODEL**

<table>
<thead>
<tr>
<th>CP36367H-2</th>
<th>input voltage (^{1}) (\text{max} \ (V_{dc}))</th>
<th>input current (^{2}) (\text{max} \ (A))</th>
<th>internal resistance (^{3}) (\text{typ} \ (\Omega \pm 10%))</th>
<th>output Qmax (^{4}) (T_h=27^\circ C) ((W))</th>
<th>output (\Delta T_{\text{max}}^{2}) (T_h=50^\circ C) ((W))</th>
<th>T(_h=27^\circ C) ((^\circ C))</th>
<th>T(_h=50^\circ C) ((^\circ C))</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.7</td>
<td>3.6</td>
<td>4.43</td>
<td>21</td>
<td>23</td>
<td>82</td>
<td>92</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. Maximum voltage at \(\Delta T_{\text{max}}\) and \(T_h=27^\circ C\)
2. Maximum current to achieve \(\Delta T_{\text{max}}\)
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at \(I_{\text{max}}\), \(V_{\text{max}}\), and \(\Delta T=0^\circ C\)
5. Maximum temperature difference occurs at \(I_{\text{max}}\), \(V_{\text{max}}\), and \(Q=0\) W (\(\Delta T_{\text{max}}\) measured in a vacuum at 1.3 Pa)
CUI Devices | SERIES: CP36H-2 | DESCRIPTION: PELTIER MODULE

SPECIFICATIONS

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
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<tbody>
<tr>
<td>solder melting temperature</td>
<td>connection between thermoelectric pairs</td>
<td>235</td>
<td></td>
<td></td>
<td>°C</td>
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<tr>
<td>assembly compression</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>MPa</td>
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<tr>
<td>hot side plate</td>
<td></td>
<td>100</td>
<td></td>
<td></td>
<td>°C</td>
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<tr>
<td>RoHS</td>
<td>yes</td>
<td></td>
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</table>

MECHANICAL DRAWING

units: mm

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**MATERIAL**

- Ceramic plate: 96% $\text{Al}_2\text{O}_3$
- 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)

![Graph showing performance at Th=27°C]

PERFORMANCE (Th=50°C)

![Graph showing performance at Th=50°C]
## REVISION HISTORY

<table>
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<tr>
<th>rev.</th>
<th>description</th>
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<tr>
<td>1.0</td>
<td>initial release</td>
<td>05/21/2018</td>
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<tr>
<td>1.01</td>
<td>brand update</td>
<td>10/29/2019</td>
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The revision history provided is for informational purposes only and is believed to be accurate.

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