SERIES: CP36H-2 | DESCRIPTION: PELTIER MODULE

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

MODEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>input voltage max (Vdc)</th>
<th>input current max (A)</th>
<th>internal resistance typ (Ω±10%)</th>
<th>output Qmax4</th>
<th>output ΔTmax2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP36367H-2</td>
<td>16.7</td>
<td>3.6</td>
<td>4.43</td>
<td>21</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>23</td>
<td>92</td>
</tr>
</tbody>
</table>

Notes:
1. Maximum voltage at ΔT max and Th = 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)
CUI Devices | SERIES: CP36H-2 | DESCRIPTION: PELTIER MODULE

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SPECIFICATIONS

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

MECHANICAL DRAWING

units: mm

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>PLATING</th>
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<tbody>
<tr>
<td>ceramic plate</td>
<td>96% Al₂O₃</td>
</tr>
<tr>
<td>wire leads</td>
<td>20 AWG tin</td>
</tr>
<tr>
<td>sealer</td>
<td>silicon rubber 703 RTV (between cold and hot side plates)</td>
</tr>
<tr>
<td>joint cover</td>
<td>silicon rubber 703 RTV</td>
</tr>
<tr>
<td>marking</td>
<td>P/N &amp; S/N printed on cold side surface</td>
</tr>
</tbody>
</table>

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COLD SIDE

HOT SIDE

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COLD SIDE

Red (+)

Black (−)

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0.05

6.7±0.2

31.25±0.75

30±0.3

100±5.0

10±3.0

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Additional Resources:  Product Page  |  3D Model
PERFORMANCE (Th=27°C)

\[
\begin{array}{c|c|c|c|c|c|c}
\text{Input Voltage (V)} & 0 & 6.0 & 12.0 & 18.0 & 24.0 \\
\text{Heat Pumped, Q (W)} & 0 & 6.0 & 12.0 & 18.0 & 24.0 \\
\end{array}
\]

\[
\Delta T = T_h - T_c \text{ (°C)}
\]

PERFORMANCE (Th=50°C)

\[
\begin{array}{c|c|c|c|c|c|c}
\text{Input Voltage (V)} & 0 & 6.0 & 12.0 & 18.0 & 24.0 \\
\text{Heat Pumped, Q (W)} & 0 & 6.0 & 12.0 & 18.0 & 24.0 \\
\end{array}
\]

\[
\Delta T = T_h - T_c \text{ (°C)}
\]
## REVISION HISTORY

<table>
<thead>
<tr>
<th>rev.</th>
<th>description</th>
<th>date</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.