MODEL: CPM-2H | DESCRIPTION: Peltier Cooling Unit

FEATURES
• arcTEC™ structure
• easy installation
• tight seal structure for water resistance and absorption of thermal stress
• wide ΔT max
• precise temperature control

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>internal resistance</td>
<td></td>
<td>1.35</td>
<td>1.65</td>
<td>Ω</td>
<td></td>
</tr>
<tr>
<td>cold side plate</td>
<td></td>
<td>-20</td>
<td>60</td>
<td>°C</td>
<td></td>
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</tbody>
</table>

SAFETY & COMPLIANCE

<table>
<thead>
<tr>
<th>parameter</th>
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<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>isolation voltage</td>
<td>for 1 second</td>
<td></td>
<td>1,200</td>
<td>Vac</td>
<td></td>
</tr>
<tr>
<td>insulation resistance</td>
<td>input to output at 250 Vdc</td>
<td>10</td>
<td></td>
<td>MΩ</td>
<td></td>
</tr>
<tr>
<td>RoHS</td>
<td></td>
<td>yes</td>
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ENVIRONMENTAL

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<tr>
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<th>max</th>
<th>units</th>
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</thead>
<tbody>
<tr>
<td>operating temperature</td>
<td></td>
<td>0</td>
<td>35</td>
<td>°C</td>
<td></td>
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<tr>
<td>storage temperature</td>
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<td>-20</td>
<td>70</td>
<td>°C</td>
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<tr>
<td>operating humidity</td>
<td></td>
<td>30</td>
<td>85</td>
<td>%</td>
<td></td>
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<tr>
<td>storage humidity</td>
<td></td>
<td>10</td>
<td>90</td>
<td>%</td>
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</tbody>
</table>

Notes: 1. at inverse voltage, “cold side plate” becomes hot side plate
2. maximum cooling capacity at $I_{\text{max}}$, $V_{\text{max}}$, and $\Delta T=0°C$
3. maximum temperature difference at $I_{\text{max}}$, $V_{\text{max}}$, and $Q=0W$ (maximum parameters are measured in a vacuum)
4. measured by AC 4-terminal method at 25°C

For further information and product selection refer to peltier application notes.pdf
CPM-2H PERFORMANCE (Th=50°C)

\[
\Delta T = T_h - T_c \ (°C)
\]

<table>
<thead>
<tr>
<th>Input Voltage (V)</th>
<th>Heat Pumped, Q (W)</th>
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<tr>
<td>18</td>
<td>60</td>
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<tr>
<td>14</td>
<td>55</td>
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<tr>
<td>12</td>
<td>50</td>
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<tr>
<td>10</td>
<td>45</td>
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<tr>
<td>8</td>
<td>40</td>
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<td>6</td>
<td>35</td>
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<tr>
<td>4</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>25</td>
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<tr>
<td>1</td>
<td>20</td>
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**MECHANICAL**

<table>
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<th>max</th>
<th>units</th>
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<tbody>
<tr>
<td>weight</td>
<td></td>
<td>200</td>
<td></td>
<td></td>
<td>g</td>
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<td>cooling medium</td>
<td>aluminum</td>
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<tr>
<td>heat radiation medium</td>
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**MECHANICAL DRAWING**

units: mm

- Wire: 18 AWG
- Connector: SVH-21T-P1.1
- Housing: JST VHR-2N

Additional Resources: [Product Page] | [3D Model]
REVISION HISTORY

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