SERIES: CP105H  |  DESCRIPTION: PELTIER MODULE

FEATURES
- arcTEC™ structure
- solid state device
- precise temperature control
- silent operation

<table>
<thead>
<tr>
<th>MODEL</th>
<th>input voltage(^1) max (Vdc)</th>
<th>input current(^2) max (A)</th>
<th>internal resistance(^3) typ (Ω±10%)</th>
<th>output Q(^4) max(^4)</th>
<th>output (\Delta T)(^2) max</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP105433H</td>
<td>15.4</td>
<td>10.5</td>
<td>1.15</td>
<td>93</td>
<td>102</td>
</tr>
</tbody>
</table>

Notes:
1. Maximum voltage at \(\Delta T\) max and \(T_h=27^\circ C\)
2. Maximum current to achieve \(\Delta T\) max
3. Measured by AC 4-terminal method at 25°C
4. Maximum heat absorbed at cold side occurs at \(I_{\text{max}}, V_{\text{max}}, \text{and} \Delta T=0^\circ C\)
5. Maximum temperature difference occurs at \(I_{\text{max}}, V_{\text{max}}, \text{and} Q=0\text{W (\(\Delta T\) max measured in a vacuum at 1.3 Pa)}\)
## 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>
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</tbody>
</table>

## MECHANICAL DRAWING

**Units:** mm

![Mechanical Drawing](image)

**Material and Plating:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic plate</td>
<td>96% Al₂O₃</td>
<td></td>
</tr>
<tr>
<td>Wire leads</td>
<td>20 AWG</td>
<td>Tin</td>
</tr>
<tr>
<td>Sealer</td>
<td>Silicon rubber 703 RTV</td>
<td></td>
</tr>
<tr>
<td>Joint cover</td>
<td>Silicon rubber 703 RTV</td>
<td></td>
</tr>
<tr>
<td>Marking</td>
<td>P/N &amp; S/N printed on cold side surface</td>
<td></td>
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</tbody>
</table>
PERFORMANCE (Th=27°C)

PERFORMANCE (Th=50°C)
REVISION HISTORY

<table>
<thead>
<tr>
<th>rev.</th>
<th>description</th>
<th>date</th>
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<tbody>
<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>10/28/2019</td>
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The revision history provided is for informational purposes only and is believed to be accurate.