SERIES: CP105H | DESCRIPTION: PELTIER MODULE

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

MODEL

<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 (W)</th>
<th>output (\Delta T)(^5) max (W)</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 \(I_{1\text{max}}, V_{1\text{max}}, \text{and } \Delta T=0^\circ C\)
5. Maximum temperature difference occurs at \(I_{1\text{max}}, V_{1\text{max}}, \text{and } Q=0W\) (\(\Delta T\) 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>
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</thead>
<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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<td>assembly compression</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>MPa</td>
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<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>
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</table>

### MECHANICAL DRAWING

**Units:** mm

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**MATERIAL**

- **Ceramic Plate:** 96% Al₂O₃
- **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

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**Additional Resources:**

- Product Page
- 3D Model
PERFORMANCE (Th=27°C)

PERFORMANCE (Th=50°C)
REVISION HISTORY

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