SERIES: CP35 | DESCRIPTION: PELTIER MODULE

FEATURES
- arcTEC™ structure on select models
- solid state device
- precise temperature control
- quiet 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 Q max (W)</th>
<th>output ∆T max (W)</th>
<th>T_h = 27°C (W)</th>
<th>T_h = 50°C (W)</th>
<th>T_h = 27°C (°C)</th>
<th>T_h = 50°C (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP35147</td>
<td>2.1</td>
<td>3.5</td>
<td>0.44</td>
<td>3.9</td>
<td>4.3</td>
<td>68</td>
<td>75</td>
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<tr>
<td>CP35247</td>
<td>3.8</td>
<td>3.5</td>
<td>0.80</td>
<td>7.0</td>
<td>7.7</td>
<td>68</td>
<td>75</td>
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<td>75</td>
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<tr>
<td>CP35301547</td>
<td>4.2</td>
<td>3.5</td>
<td>0.90</td>
<td>7.9</td>
<td>8.7</td>
<td>68</td>
<td>75</td>
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<tr>
<td>CP35347⁶</td>
<td>8.6</td>
<td>3.5</td>
<td>1.93</td>
<td>16.0</td>
<td>17.8</td>
<td>70</td>
<td>77</td>
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<td>77</td>
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<td>CP353047⁶</td>
<td>11.8</td>
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<td>2.52</td>
<td>24.0</td>
<td>26.0</td>
<td>70</td>
<td>77</td>
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<td>77</td>
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<td>CP35447⁶</td>
<td>15.4</td>
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<td>3.3</td>
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<td>32.0</td>
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<tr>
<td>CP354047⁶</td>
<td>24.1</td>
<td>3.5</td>
<td>5.17</td>
<td>49.0</td>
<td>53.0</td>
<td>70</td>
<td>77</td>
<td>70</td>
<td>77</td>
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</tbody>
</table>

Notes:
1. Maximum voltage at ∆T max and T_h = 27°C
2. Maximum current to achieve ∆T 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 ∆T=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)
6. Designed with arcTEC™ structure.
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 CP35347, CP353047, CP35447, CP354047 all other models</td>
<td>235</td>
<td>138</td>
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<td>°C</td>
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<tr>
<td>assembly compression</td>
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<td>1</td>
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<td>MPa</td>
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<td>RoHS</td>
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</tbody>
</table>

MECHANICAL DRAWING

units: mm

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Notes: 1. Wire lead strip length on model CP35347 is 10 ±3.0 mm.
CP35147 PERFORMANCE (Th=27°C)

![Graph showing performance at Th=27°C.](image1)

CP35147 PERFORMANCE (Th=50°C)

![Graph showing performance at Th=50°C.](image2)
CP35247 PERFORMANCE (Th=27°C)

Additional Resources: Product Page | 3D Model

CP35247 PERFORMANCE (Th=50°C)
CP35301547 PERFORMANCE (Th=27°C)

CP35301547 PERFORMANCE (Th=50°C)
CP35347 PERFORMANCE (Th=27°C)

CP35347 PERFORMANCE (Th=50°C)
CP353047 PERFORMANCE (Th=27°C)

Additional Resources:    Product Page | 3D Model

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CP35447 PERFORMANCE (Th=27°C)

CP35447 PERFORMANCE (Th=50°C)
CP354047 PERFORMANCE (Th=27°C)

\[\Delta T = \text{Th} - \text{Tc} \, (^\circ C)\]

Input Voltage (V) vs. Heat Pumped, Q (W)

CP354047 PERFORMANCE (Th=50°C)

\[\Delta T = \text{Th} - \text{Tc} \, (^\circ C)\]

Input Voltage (V) vs. Heat Pumped, Q (W)
CUI Devices | SERIES: CP35 | DESCRIPTION: PELTIER MODULE

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