SERIES: CP45H | DESCRIPTION: PELTIER MODULE

FEATURES
- arcTEC™ structure
- solid state device
- 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 Qmax Tₜₜ=27°C (W)</th>
<th>output Tₜₜ=50°C (W)</th>
<th>output ∆Tmax Tₜₜ=27°C (°C)</th>
<th>Tₜₜ=50°C (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP454375</td>
<td>19.5</td>
<td>4.5</td>
<td>3.54</td>
<td>50.7</td>
<td>55.7</td>
<td>70</td>
<td>77</td>
</tr>
<tr>
<td>CP455535H</td>
<td>15.7</td>
<td>4.5</td>
<td>2.5</td>
<td>41</td>
<td>45</td>
<td>70</td>
<td>77</td>
</tr>
</tbody>
</table>

Notes:
1. Maximum voltage at ∆T max and Tₜₜ=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 Iₘₘₐₓ, Vₘₘₐₓ, and ∆T=0°C
5. Maximum temperature difference occurs at Iₘₘₐₓ, Vₘₘₐₓ, and Q=0W (∆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>
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<tr>
<td>assembly compression</td>
<td></td>
<td></td>
<td>1</td>
<td>MPa</td>
<td></td>
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<td>RoHS</td>
<td></td>
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<td>yes</td>
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**MECHANICAL DRAWING**

![Mechanical Drawing]

Additional Resources: [Product Page](#) | [3D Model](#)
**CP454375 PERFORMANCE (Th=27°C)**

![Graph showing performance at Th=27°C]

**CP454375 PERFORMANCE (Th=50°C)**

![Graph showing performance at Th=50°C]
CP455535H PERFORMANCE (Th=27°C)

\[ \Delta T = T_h - T_c \] °C

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CP455535H PERFORMANCE (Th=50°C)

\[ \Delta T = T_h - T_c \] °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>added model CP454375, brand update</td>
<td>10/16/2019</td>
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The revision history provided is for informational purposes only and is believed to be accurate.

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