APH-127-10-20-S
Peltier cooler module

Data sheet

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imax</td>
<td>[A]</td>
<td>2.3</td>
</tr>
<tr>
<td>Vmax</td>
<td>[Vdc]</td>
<td>15.4</td>
</tr>
<tr>
<td>Pc max</td>
<td>[W]</td>
<td>20</td>
</tr>
<tr>
<td>ΔTmax</td>
<td>[°C]</td>
<td>68</td>
</tr>
<tr>
<td>A</td>
<td>[mm]</td>
<td>30</td>
</tr>
<tr>
<td>A1</td>
<td>[mm]</td>
<td>30</td>
</tr>
<tr>
<td>B</td>
<td>[mm]</td>
<td>30</td>
</tr>
<tr>
<td>H</td>
<td>[mm]</td>
<td>4.0</td>
</tr>
<tr>
<td>L</td>
<td>[mm]</td>
<td>100</td>
</tr>
<tr>
<td>Wire</td>
<td>AWG</td>
<td>n/a</td>
</tr>
</tbody>
</table>

(At hot side temperature Th = 25°C / 298K, under dry N₂).

Pc max = Cooling power at ΔT = 0 and I = Imax.
ΔTmax = Temperature difference at I = Imax and Pc = 0.
Max hot side temperature Th = 80°C for best long term performance.
Max mounting pressure: 1.5MPa.
Wires: UL-style 1569, 105°C (Unstripped).

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Data sheet - At hot side temperature 25°C

- Heat removed (W) vs. Temperature difference (°C)
- Waste heat (W) vs. Temperature difference (°C)
- Input Voltage (V) vs. Temperature difference (°C)
- COP vs. Current (A)

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Data sheet - At hot side temperature 50°C

Graphs showing the following:
- Heat removed (W) vs. Temperature difference (°C) for different currents (I = 2.30 A, I = 1.50 A, I = 1.25 A, I = 1.00 A, I = 0.75 A, I = 0.50 A, Max COP).
- Waste heat (W) vs. Temperature difference (°C) for different currents (I = 2.30 A, I = 1.50 A, I = 1.25 A, I = 1.00 A, I = 0.75 A, I = 0.50 A).
- Input Voltage (V) vs. Temperature difference (°C) for different currents (I = 2.30 A, I = 1.50 A, I = 1.25 A, I = 1.00 A, I = 0.75 A, I = 0.50 A).
- COP vs. Current (A) for different temperature differences (Delta T = 0 C, Delta T = 10 C, Delta T = 20 C, Delta T = 30 C, Delta T = 40 C, Delta T = 50 C, Delta T = 60 C).
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Data sheet - At hot side temperature 75°C

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