## Peltier Cooler Module

### Data sheet

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imax</td>
<td>3.7 [A]</td>
</tr>
<tr>
<td>Vmax</td>
<td>3.6 [Vdc]</td>
</tr>
<tr>
<td>Pc max</td>
<td>9 [W]</td>
</tr>
<tr>
<td>ACR</td>
<td>0.8 [Ω]</td>
</tr>
<tr>
<td>ΔTmax</td>
<td>65 [°C]</td>
</tr>
<tr>
<td>A</td>
<td>16 [mm]</td>
</tr>
<tr>
<td>A1</td>
<td>20.5 [mm]</td>
</tr>
<tr>
<td>B</td>
<td>16 [mm]</td>
</tr>
<tr>
<td>H</td>
<td>3.6 [mm]</td>
</tr>
<tr>
<td>L</td>
<td>100 [mm]</td>
</tr>
<tr>
<td>Wire</td>
<td>20 [AWG]</td>
</tr>
</tbody>
</table>

### Features

- RoHs and Reach 161 compliant
- Solid-state reliability
- Built with high temperature solder with the ability to withstand <200°C assembly processing temperatures for short periods of time
- High integrity nickel diffusion barriers on elements
- High strength for rugged environments
- Porched style for enhanced leadwire strength
- Sealed & lapped for multi-module applications

(At hot side temperature Th = 27°C / 300K, 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 = 200°C for best long term performance
- Max mounting pressure: 1.5MPa
- Wires: UL-style 1569, 105°C (Unstripped)
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)
Data sheet - At hot side temperature 50°C

1. Heat removed (W) vs. Temperature difference (°C)
   - Different currents (I = 3.70 A, 3.00 A, 2.50 A, 2.00 A, 1.50 A, 1.00 A)
   - Max COP indicator

2. Waste heat (W) vs. Temperature difference (°C)
   - Different currents (I = 3.70 A, 3.00 A, 2.50 A, 2.00 A, 1.50 A, 1.00 A)

3. Input Voltage (V) vs. Temperature difference (°C)
   - Different currents (I = 3.70 A, 3.00 A, 2.50 A, 2.00 A, 1.50 A, 1.00 A)

4. COP vs. Current (A)
   - Different temperature differences (ΔT = 0 °C, 10 °C, 20 °C, 30 °C, 40 °C, 50 °C, 60 °C)
Data sheet - At hot side temperature 75°C