**CH-21-1.0-1.3 Thermoelectric Module Specifications**

<table>
<thead>
<tr>
<th>Material Specifications (27 °C hot side temperature)</th>
<th>Material Specifications (50 °C hot side temperature)</th>
<th>Module material specifications are nominal values based on the hot-side temperature indicated. Thermoelectric material parameter tolerance is +/-10%.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vmax (V)</td>
<td>2.4</td>
<td>2.7</td>
</tr>
<tr>
<td>Imax (A)</td>
<td>3.6</td>
<td>3.6</td>
</tr>
<tr>
<td>Qmax (W)</td>
<td>5.2</td>
<td>5.7</td>
</tr>
<tr>
<td>DTmax (°C)</td>
<td>69</td>
<td>78</td>
</tr>
<tr>
<td>Operation/storage temperature</td>
<td>-40 °C to +80 °C</td>
<td>In no case should the module temperature be allowed to exceed its maximum operation/storage temperature.</td>
</tr>
</tbody>
</table>

Please review all product and technical information, Thermoelectric Module Mounting Procedure, parameter definitions, FAQ's, and ordering information posted on our website before purchasing or using this product.

Optional Features and Notes:

Add "P" to part number for sealing module with epoxy potting.

- Outer Diameter, OD (mm): 15 +0.5/-0.2
- Inner Diameter, ID (mm): 3 +0.2/-0.5
- Height, H (mm): 3.6 ±0.05
- Flatness, F (mm): 0.02
- Parallelism, P (mm): 0.03
- Wire Size, WS (mm²): 0.2
- Wire Length, WL (mm): 120

Performance graphs include thermal resistance of substrates.

RoHS Compliant Directive 2002/95/EC

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NOTE: All specifications are subject to change without notice. © 2010 TE Technology, Inc.
Unpotted CH-21-1.0-1.3 at a hot-side temperature of 30 °C

Note: All specifications subject to change without notice.

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Heat Removed (W)

Temperature Difference (°C)

Waste Heat (W)

Temperature Difference (°C)

Input Current (A)

Temperature Difference (°C)

Coefficient of Performance (COP)

Temperature Difference (°C)

Input Voltage (V)

Temperature Difference (°C)

Potted CH-21-1.0-1.3 at a hot-side temperature of 30 °C

Note: All specifications subject to change without notice.
Unpotted CH-21-1.0-1.3 at a hot-side temperature of 50 °C

Note: All specifications subject to change without notice.

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Potted CH-21-1.0-1.3 at a hot-side temperature of 50 °C
Unpotted CH-21-1.0-1.3 at a hot-side temperature of 70 °C
Potted CH-21-1.0-1.3 at a hot-side temperature of 70 °C