### TE-109-0.6-0.8 Thermoelectric Module (Peltier Module) Specifications

<table>
<thead>
<tr>
<th></th>
<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>13.4</td>
<td>14.9</td>
<td>In no case should the module temperature be allowed to exceed its maximum operation/storage temperature.</td>
</tr>
<tr>
<td>Imax (A)</td>
<td>2.1</td>
<td>2.1</td>
<td>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.</td>
</tr>
<tr>
<td>Qmax (W)</td>
<td>16.9</td>
<td>18.5</td>
<td></td>
</tr>
<tr>
<td>DTmax (°C)</td>
<td>68</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Operation/storage temperature</td>
<td>-40 °C to +80 °C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Thermoelectric Module**

- **Vmax (V)**: 13.4, 14.9
- **Imax (A)**: 2.1, 2.1
- **Qmax (W)**: 16.9, 18.5
- **DTmax (°C)**: 68, 77

**Operation/storage temperature**: -40 °C to +80 °C

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**Optional Features and Notes:**

- **Width, A (mm)**: 12 +0.5/-0.2
- **Width, B (mm)**: 26 +0.5/-0.2
- **Height, H (mm)**: 2.55 ±0.15
- **Flatness, F (mm)**: 0.15
- **Parallelism, P (mm)**: 0.15
- **Wire Size, WS (mm²)**: 0.12
- **Wire Length, WL (mm)**: 50

Optional Features and Notes:

- Add “P” to part number for sealing module with epoxy potting.
- Module includes 30 μm nickel metallization on hot and cold sides.
- The metallization does not include pre-tinning.

Performance graphs include thermal resistance of substrates.

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NOTE: All specifications are subject to change without notice. © 2018 TE Technology, Inc.
Unpotted TE-109-0.6-0.8 at a hot-side temperature of 30 °C

Note: All specifications subject to change without notice.

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Potted TE-109-0.6-0.8 at a hot-side temperature of 30 °C
Unpotted TE-109-0.6-0.8 at a hot-side temperature of 50 °C
Potted TE-109-0.6-0.8 at a hot-side temperature of 50 °C
Unpotted TE-109-0.6-0.8 at a hot-side temperature of 70 °C
Potted TE-109-0.6-0.8 at a hot-side temperature of 70 °C

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