Technical Data Sheet for RC6-4
Single-Stage Thermoelectric Module

NOMINAL PERFORMANCE IN NITROGEN

<table>
<thead>
<tr>
<th>Description</th>
<th>Hot Side Temperature (°C)</th>
<th>Δ Tmax (°C):</th>
<th>Qmax (watts):</th>
<th>Imax (amps):</th>
<th>Vmax (vdc):</th>
<th>AC Resistance (ohms):</th>
<th>Device ZT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27</td>
<td>65</td>
<td>20</td>
<td>3.7</td>
<td>8.2</td>
<td>1.8</td>
<td>0.74</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>73</td>
<td>22</td>
<td>3.7</td>
<td>9.2</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

PRODUCT FEATURES
- RoHS EU Compliant
- Rated operating temperature of 130°C.
- Ceramic Material: Aluminum Oxide
- Porch configuration for high strength lead wire connection.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- RTV sealing option available.
- Lapped option available for multiple module applications.

ORDERING OPTIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC6-4-01</td>
<td>Leadwires</td>
</tr>
<tr>
<td>RC6-4-01L</td>
<td>Leadwires, Lapped</td>
</tr>
<tr>
<td>RC6-4-01S</td>
<td>Leadwires, Sealed</td>
</tr>
<tr>
<td>RC6-4-01LS</td>
<td>Leadwires, Lapped, Sealed</td>
</tr>
<tr>
<td>RC6-4-02L</td>
<td>Lapped, Nail Head Leadwires</td>
</tr>
<tr>
<td>RC6-4-05</td>
<td>Leadwires, bent-leads</td>
</tr>
</tbody>
</table>

OPERATION CAUTIONS

For maximum reliability, storage and operation below 130°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

INSTALLATION

Recommended mounting method: Clamp with uniform pressure to a flat surface with thermal interface material. For additional information, please refer to our TEM Installation Guide.
TYPICAL PERFORMANCE CURVES

THERMOELECTRIC COOLING PERFORMANCE CURVES
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

POWER GENERATION PERFORMANCE CURVES
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

For performance information with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

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For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.
MECHANICAL CHARACTERISTICS

All units are in millimeters unless otherwise stated.

*NOTE: Cold side, hot side, positive lead, and negative lead are valid only for thermoelectric cooling. For power generation, refer to figure below:

For customer support or general questions please contact a local office or visit our website at www.marlow.com.

Marlow reserves the right to make product changes without notice.