## N-15 / A-15
15 mm low profile rotary potentiometer

### Main features

<table>
<thead>
<tr>
<th>Feature</th>
<th>N-15</th>
<th>A-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting methods</td>
<td>SMD, through hole, horizontal</td>
<td></td>
</tr>
<tr>
<td>Resistive element</td>
<td>carbon</td>
<td></td>
</tr>
<tr>
<td>Dust proof enclosure</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Packaging</td>
<td>embossed tape, bulk</td>
<td></td>
</tr>
<tr>
<td>Low profile</td>
<td>yes (4.4 mm)</td>
<td></td>
</tr>
<tr>
<td>Linearity/precision</td>
<td>±3% (absolute)</td>
<td>±7° (up to ±6°)</td>
</tr>
<tr>
<td>Shaft insertable from both sides</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Rotor</td>
<td>“T” polarised</td>
<td></td>
</tr>
<tr>
<td>Long life version</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Endless rotation</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Fully customisable</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Leaddfree reflow soldering compatible</td>
<td>yes (E15 series, see Encoders &amp; Rotary switches catalogue)</td>
<td></td>
</tr>
<tr>
<td>Incremental encoder version available</td>
<td>yes (E15 series, see Encoders &amp; Rotary switches catalogue)</td>
<td></td>
</tr>
<tr>
<td>Rotary switch version available</td>
<td>yes (S15 series, see Encoders &amp; Rotary switches catalogue)</td>
<td></td>
</tr>
<tr>
<td>Hybrid pulse generator-potentiometer version</td>
<td>yes (contact PIHER for detailed information)</td>
<td></td>
</tr>
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</table>

### Electrical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>N-15</th>
<th>A-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of values*</td>
<td>5k, 10k, 100k</td>
<td>5k, 10k</td>
</tr>
<tr>
<td>Tolerance*</td>
<td>± 30%</td>
<td>± 40%</td>
</tr>
<tr>
<td>Max. Voltage</td>
<td>250 VDC</td>
<td></td>
</tr>
<tr>
<td>Nominal Power</td>
<td>0.15 W @ 50°C</td>
<td>special</td>
</tr>
<tr>
<td>Taper</td>
<td>Linear</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40°C + 120°C</td>
<td></td>
</tr>
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(*) Others upon request

### Mechanical specifications

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<tr>
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<tbody>
<tr>
<td>Mechanical rotation angle</td>
<td>360°</td>
<td></td>
</tr>
<tr>
<td>Electrical rotation angle</td>
<td>340° ± 10°</td>
<td>360° ± 7°</td>
</tr>
<tr>
<td>Torque</td>
<td>≤ 20 mN.m</td>
<td></td>
</tr>
<tr>
<td>Mechanical life*</td>
<td>100K cycles</td>
<td></td>
</tr>
</tbody>
</table>

(*) 200K cycles upon request
Z-15 series: up to 2M cycles
SMD version

Through hole version

PCB HOLE LAYOUT 1

PCB HOLE LAYOUT 2

Horizontal adjust version (will be studied case by case)
Z-15 (long life)
15 mm low profile potentiometer

Main features

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<th>Feature</th>
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<tr>
<td>Mounting methods</td>
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Electrical specifications

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<tr>
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<tr>
<td>Value</td>
<td>5K</td>
</tr>
<tr>
<td>Tolerance</td>
<td>± 30%</td>
</tr>
<tr>
<td>Max. Voltage**</td>
<td>27 VDC (5K value)</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>0.15 W @ 50°C</td>
</tr>
<tr>
<td>Taper</td>
<td>Linear</td>
</tr>
<tr>
<td>Operating temperature</td>
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(*) Others upon request
(**) Max. voltage is dependent on nominal power and resistance value.
Max. voltage can not exceed 250VDC

Mechanical specifications

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