These miniature Permanent Magnet DC Stepper Motors measure 25mm in diameter and provide up to 2.22 ounce-inches of bipolar holding torque. These motors come standard in 15° step angles with a four or six-lead wire connection, and are offered in 9V or 12V voltage ratings. Customization is available for larger quantities.

<table>
<thead>
<tr>
<th>Item</th>
<th># of Wires</th>
<th># of Phases</th>
<th>Bipolar Holding Torque (oz-in)</th>
<th>Detent Torque (oz-in)</th>
<th>Bipolar Series RMS Voltage (V)</th>
<th>Current Per Phase (A)</th>
<th>Resistance Per Phase (ohms)</th>
<th>Rotor Inertia (oz-in-sec²)</th>
<th>Weight (lbs)</th>
<th>Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSM25-150-16-12V-040A-LW6</td>
<td>6</td>
<td>4</td>
<td>1.80</td>
<td>1.04</td>
<td>12</td>
<td>0.40</td>
<td>30</td>
<td>0.000014</td>
<td>0.08</td>
<td>16.0</td>
</tr>
<tr>
<td>TSM25-150-16-9V-045A-LW6</td>
<td>6</td>
<td>4</td>
<td>2.22</td>
<td>0.49</td>
<td>9</td>
<td>0.45</td>
<td>50</td>
<td>0.000014</td>
<td>0.08</td>
<td>16.0</td>
</tr>
</tbody>
</table>

Step Angle Accuracy ±8% (Full Step, No Load)  
Insulation Resistance 100Ω Min. 500 VDC  
Resistance Accuracy ±10%  
Dielectric Strength 500VAC for One Minute  
Inductance Accuracy ±20%  
Shaft Radial Play 0.06Max (450 g-load)  
Temperature Rise 80° C Max  
Shaft Axial Play +/- 0.5mm (450 g-load)  
Ambient Temperature -20°C to +50°C
TSM25-150-16-12V-040A-LW6

TSM25-150-16-9V-045A-LW6

**All units are in mm**

**All units are in mm**