These miniature Permanent Magnet DC Stepper Motors measure 35mm in diameter and provide up to 4.65 ounce-inches of bipolar holding torque. These motors come standard in a 15° step angle with a four-lead wire connection, and are offered in a 5V voltage rating. Customization is available for larger quantities.

### TSM35-150 - Permanent Magnet Stepper Motor

- **Permanent Magnet Stepper Motor**
- **35mm Diameter**
- **15 Degree Step Angle**
- **Up to 4.65 oz-in of Bipolar Holding Torque**
- **Customization Available for:**
  - Winding Current to Optimize Torque
  - Shaft Options
  - Cables or Connectors
- **RoHS Compliant and CE Certified**

#### Specifications

<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>TSM35-150-22-6V-046A-LW4</td>
<td>4</td>
<td>2</td>
<td>4.65</td>
<td>1.74</td>
<td>5</td>
<td>0.46</td>
<td>11</td>
<td>0.0001058</td>
<td>0.18</td>
<td>22</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

L010264
DIMENSIONS

*All units in mm