**BOTH AXIS SHOWN AT MIDSTROKE**

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**REVISION TABLE**

<table>
<thead>
<tr>
<th>REV ECN#</th>
<th>DESCRIPTION</th>
<th>REV BY</th>
<th>APPROVED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>Original Drawing</td>
<td>OOG</td>
<td>MPW</td>
<td>9-8-14</td>
</tr>
</tbody>
</table>

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**FOR REFERENCE ONLY**

**Linear Stepper Stage Model #:**

LSS-004/004-07-06-XY

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All dimensions are in inches. Standard tolerances are ±.005 for linear dimensions, ±.1° for angles, ±.010 for fillets and corners, ±.005 for edge radii. Unless otherwise specified, all dimensions are in inches.}

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MOUNTING FEATURES

4X TAP 10-32
Ø .25 [6.4]

TYP.

[10.8]
.425

[53.3]
2.100

[24.4]
.960

[25.4]
1.000

4X TAP 6-32
Ø .25 [6.4]

[177.8]
7.000

[37.1]
1.460

[6.4]
.250 TYP.

4X TAP 10-32
Ø .25 [6.4]
## LINEAR STEPPER STAGE SPECIFICATIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motor P/N</strong></td>
<td>STS-0620-R</td>
</tr>
<tr>
<td><strong>Continuous Force</strong></td>
<td>6.0 lbs</td>
</tr>
<tr>
<td></td>
<td>26.7 N</td>
</tr>
<tr>
<td><strong>Stroke</strong></td>
<td>4.0 in</td>
</tr>
<tr>
<td></td>
<td>102 mm</td>
</tr>
<tr>
<td><strong>Encoder Resolution</strong></td>
<td>NONE</td>
</tr>
<tr>
<td><strong>Rated Current</strong></td>
<td>2.0 Amp</td>
</tr>
<tr>
<td><strong>Resistance/Phase @ 20C</strong></td>
<td>2.40 ohms</td>
</tr>
<tr>
<td><strong>Inductance/Phase @ 20C</strong></td>
<td>3.0 mH</td>
</tr>
<tr>
<td><strong>Motor Phases</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Bearing Type</strong></td>
<td>Roller Bearing</td>
</tr>
<tr>
<td><strong>Nominal Airgap</strong></td>
<td>0.0015&quot;</td>
</tr>
<tr>
<td><strong>Moving Mass</strong></td>
<td>0.625 lbs</td>
</tr>
<tr>
<td></td>
<td>280 g</td>
</tr>
<tr>
<td><strong>Total Mass</strong></td>
<td>2.80 lbs</td>
</tr>
<tr>
<td></td>
<td>1270 g</td>
</tr>
</tbody>
</table>

### NOTES:

1. ELECTRICAL SPECS & MASSES ARE PER INDIVIDUAL AXIS.
2. TOTAL STAGE MASS = 5.60 lbs [2535 g]

### Electrical Specifications

- **Motor P/N**: STS-0620-R
- **Continuous Force**: 6.0 lbs (26.7 N)
- **Stroke**: 4.0 in (102 mm)
- **Encoder Resolution**: NONE
- **Rated Current**: 2.0 Amp
- **Resistance/Phase @ 20C**: 2.40 ohms
- **Inductance/Phase @ 20C**: 3.0 mH
- **Motor Phases**: 2
- **Bearing Type**: Roller Bearing
- **Nominal Airgap**: 0.0015"
- **Moving Mass**: 0.625 lbs (280 g)
- **Total Mass**: 2.80 lbs (1270 g)