3700/3701 - Precision Potentiometer

Features

- Bushing mount
- Excellent resolution
- Non-standard features and specifications available
- Small diameter
- High rotational life
- RoHS compliant

Mechanical Characteristics

| Stop Strength | 14 N-cm (20 oz-in.) minimum |
| Torque (Starting & Running) | 0.45 N-cm (0.6 oz-in.) max. |
| Shaft Runout | 0.05 mm (0.002 in.) T.I.R. |
| Lateral Runout | 0.13 mm (0.005 in.) T.I.R. |
| Shaft End Play | 0.13 mm (0.005 in.) T.I.R. |
| Shaft Radial Play | 0.08 mm (0.003 in.) T.I.R. |
| Pilot Diameter Runout | 0.05 mm (0.002 in.) T.I.R. |
| Backlash | 1.0 ° maximum |
| Weight | Approximately 28 gm |

Soldering Condition

- Manual Soldering | 96.5Sn3.0Ag0.5Cu solder with no-clean flux |
- Wave Soldering | 96.5Sn3.0Ag0.5Cu solder with no-clean flux |

Recommended Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (Ω)</th>
<th>Resolution (% Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3700S-1-102L</td>
<td>1,000</td>
<td>0.05</td>
</tr>
<tr>
<td>3700S-1-202L</td>
<td>2,000</td>
<td>0.04</td>
</tr>
<tr>
<td>3700S-1-102L</td>
<td>1,000</td>
<td>0.05</td>
</tr>
<tr>
<td>3700S-1-103L</td>
<td>10,000</td>
<td>0.03</td>
</tr>
</tbody>
</table>

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

1 Room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.
2 Consult manufacturer for complete specification details.
**3700/3701 - Precision Potentiometer**

**Product Dimensions**

### 3700S-1

- **1/4"-32 UNEF-2ATHD**
- **2.37 ± .01**
- **.96 ± .005**
- **25.40 ± .51**
- **7.14 ± .02**
- **9.53 ± .13**
- **17.46 ± .79**
- **23.81 ± .38**

**Adjustment Slot**
- **0.81 WIDE X (.032)**
- **0.81 DEEP (.032 ± .010)**

**Wiper**
- **90° ± 5°**

**Lockwasher and Mounting Nut**
- To be supplied with each unit

### 3701H-1

- **1/4"-32 UNEF-2ATHD**
- **20.37 ± .38**
- **4.52 ± .38**
- **25.40 ± .51**
- **7.14 ± .02**
- **17.46 ± .79**

**Adjustment Slot**
- **0.81 WIDE X (.032)**
- **0.81 DEEP (.032 ± .010)**

**Wiper**
- **90° ± 5°**

**Lockwasher and Mounting Nut**
- To be supplied with each unit

**Tolerances:** Except where noted
- **Decimals:** .XX (.010)
- **.XXX (.005)**
- **Fractions:** 1/64
- **MM IN**

Specifications are subject to change without notice.
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Users should verify actual device performance in their specific applications.