Model 3707
3/4" Diameter 10-Turn Bushing Mount
WIREWOUND ELEMENT

FEATURES

- Low Cost Design
- Miniature size 3/4" diameter by 1.00" long
- SILVERWELD® termination eliminates vulnerable single wire termination
- Special rotor design assures excellent wiper stability
- Stainless Steel shaft
- Operating temperature range: -55°C to +105°C

STANDARD RESISTANCES

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number*</th>
<th>Resolution (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>3707S-1-100</td>
<td>0.672</td>
</tr>
<tr>
<td>400</td>
<td>3707S-1-400</td>
<td>0.661</td>
</tr>
<tr>
<td>900</td>
<td>3707S-1-900</td>
<td>0.650</td>
</tr>
<tr>
<td>1,000</td>
<td>3707S-1-100</td>
<td>0.588</td>
</tr>
<tr>
<td>2,000</td>
<td>3707S-1-200</td>
<td>0.527</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Part Number*</th>
<th>Resolution (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>3707S-1-400</td>
<td>0.009</td>
</tr>
<tr>
<td>20,000</td>
<td>3707S-1-400</td>
<td>0.009</td>
</tr>
<tr>
<td>50,000</td>
<td>3707S-1-400</td>
<td>0.016</td>
</tr>
<tr>
<td>100,000</td>
<td>3707S-1-400</td>
<td>0.031</td>
</tr>
</tbody>
</table>

*These three digits of part number represent the resistance value in standard code.
Model 3707 Wirewound Potentiometer

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Resistance Range ........................................ 100 to 1000 ohms
Resistance Tolerance .................................. ±5%, maximum
Linearity (Independent) ................................ ±1.5%
Resolution .................................................. (see standard resistance table)
Effective Electrical Angle 360° (±10°—5°)
Noise during adjustment .................................. 100 ohms 60 Hz maximum
Power Ratings:
40°C ..................................................... 1 watt
100°C .................................................... 0 watt
Equivalent Strengths:
Room Conditions 70,000 foot
0 volts AC ............................................. 200 volts DC
250 volts AC .......................................... 250 volts DC
Transition Resistance, 500 volts AC ..................... 1000 megohms, minimum

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range .......................... -55 to +105°C
Temperature Coefficient of Resistance ±.005% per °C maximum
Vibration .................................................. 0.5 g, 20 Hz to 55 Hz
Shock ..................................................... 50 g

MECHANICAL AND PHYSICAL CHARACTERISTICS

Temperature Range 3300 feet minimum
Relational Life .......................................... 200,000 shaft revolutions
Stop Strength 20 oz-in, minimum
Torque 2.0 oz-in, minimum (torqueing)
Weight Approximately 1 oz
Terminals .................................................. solid plated copper type
Markings .................................................. Manufacturer name and part number, resistance value and tolerance, linearity tolerance, wiring diagram and data code.

Specifications are subject to change without notice.

3707

ADJUSTMENT SLOTTED WIPER 1/32 X 1/32...

7° ±2°
20° ± 5°
1/32

WIPER

TOLERANCES DEGREES XXX ± .002 XXX ± .005
DEGREES 1/32 ± .005

C.C.W. ○—○—○—○—○ ○—○—○—○—○

LOCKWASHER AND MOUNTING NUT TO BE SUPPLIED WITH EACH UNIT

BOURNS, INC., TRANSPORT PRODUCTS DIVISION

1200 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507

LITHO IN USA.