### Electrical Characteristics

- **Insulation Resistance**: 1,000 megohms minimum
- **Effective Electrical Angle**: Conforms to UL 94V-1
- **Flammability**: Conforms to UL94V-0
- **Marking**: Manufacturer's trademark, model number, product code, terminal style, resistance code and date code
- **Power Rating (Resistive Load)**: 100 mA @ 16 VDC
- **Weight (Single Section)**: 4.5 grams
- **Mechanical Angle**: 300 ° nominal
- **Independent Linearity**: ±5 %
- **Terminals**: Solderable pins
- **Moisture Resistance**: MIL-STD-202, Method 103, Condition B
- **Contact Resistance Variation**: 1 % or 1 ohm (whichever is greater)
- **Shock**: 100 G
- **Total Resistance Shift**: ±5 % TRS maximum
- **External Linearity**: ±5 %
- **Sea Level**: 900 VAC minimum
- **Wash Processes**: For recommended wash processes, please refer to http://www.bourns.com/pdfs/sldclen.pdf

### Environmental Characteristics

- **Operating Temperature Range**: -40 °C to +125 °C (-40 °F to +257 °F)
- **Storage Temperature Range**: -55 °C to +125 °C (-67 °F to +257 °F)
- **Temperature Coefficient Over Storage Temperature Range**: ±1,000 ppm/°C
- **Vibration**: 30 G
- **Total Resistance Shift**: ±1 % maximum
- **Voltage Ratio Shift**: ±1 % maximum
- **Shock**: 100 G
- **Total Resistance Shift**: ±1 % maximum
- **Total Resistance Shift**: ±1 % maximum
- **Load Life**: 1,000 hours
- **Rotational Life (No Load)**: 50,000 cycles
- **Total Resistance Shift**: ±5 % TRS maximum
- **Contact Resistance Variation**: 3 % or 3 ohms (whichever is greater)
- **Moisture Resistance**: MIL-STD-202, Method 103, Condition B
- **Total Resistance Shift**: ±10 % TRS maximum
- **IP Rating**: IP67
- **Moisture Sensitivity Level**: 1
- **ESD Classification (HBM)**: N/A

### Mechanical Characteristics

- **Stop Strength**: 5.65 N-cm (8 oz.-in.)
- **Torque**: 3.53 N-cm (5.0 oz.-in.) maximum
- **Running**: 3.53 N-cm (5.0 oz.-in.) maximum
- **Mounting (Torque on Bushing)**: 45 N-cm (4.0 lb.-in.) max [plastic bushing]; 79 N-cm (7.0 lb.-in.) max [metal bushing]
- **Weight (Single Section)**: 2.5 grams (Each Additional Section)
- **Terminals**: Solderable pins
- **Soldering Condition**: 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
- **Manual Soldering**: 96.5Sn/3.0Ag/0.5Cu solder with no-clean flux; 260 °C (500 °F) max. for 5 seconds
- **Wash Processes**: For recommended wash processes, please refer to http://www.bourns.com/pdfs/sldclen.pdf
- **Ganging**: Manufacturer's trademark, model number, product code, terminal style, resistance code and date code
- **Marking**: 2 cups maximum
- **Hardware**: One lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number
- **Flammability**: Conforms to UL94V-0
- **Epoxy**: Conforms to UL 94V-1
- **IP Rating**: IP67

### Switch Characteristics

- **Switch Life**: 10K cycles
- **Contact Resistance**: 2 ohms max.
- **Dielectric Strength**: 350 VDC
- **Detent Torque**: 0.5 oz-in.
- **Power Rating (Resistive Load)**: 100 mA @ 16 VDC

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**WARNING**

Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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### Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
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<td>204</td>
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<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

Popular values listed in boldface. Consult factory for special resistances.

### How To Order

**Model Number Designator**

- 3310 = 9 mm Panel Control

**Terminal Style Designator**

- Single Cup:
  - C = In-line Straight Terminals Side Exit 2.54 mm centers
  - R = In-line Terminals Rear Exit 2.54 mm centers
  - P = 5.08 mm x 2.54 mm Triangular Pattern Rear Exit
  - Y = 5.08 mm x 5.08 mm Triangular Pattern Rear Exit

- Dual Cup (Pot/Pot or Pot/Switch):
  - H = Dual In-line Straight Terminals Rear Exit 2.54 mm centers

**Shaft End Designator**

- 0 = Shaft End Slotted
- 1 = Shaft End Flatted

**Shaft Length Designator**

- 0 = 12.7 mm FMS Long Plastic Shaft (Available w/bushing only)
- 1 = 19.05 mm FMS Long Plastic Shaft (Available w/bushing only)
- 2 = 5.59 mm FMS Long Plastic Shaft (Bushingless version only)

**Bushing Designator**

- Pot (or Pot/Pot):
  - 1 = 6.35 mm x 6.35 mm Plastic
  - 2 = 6.35 mm x 6.35 mm Ni Plated Brass
  - 5 = Bushingless (Board Level Control)

- Pot/Switch Bushing Designator (use with “H” terminal style only.)
  - 3 = 6.35 mm x 6.35 mm Plastic
  - 4 = 6.35 mm x 6.35 mm Ni Plated Brass
  - 6 = Bushingless (Board Level)

**Resistance Code**

(1st 2 digits are significant, 3rd digit is number of 0s to follow)

**RoHS Identifier**

- L = Compliant

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**Additional Features**

- Audio taper versions available as special order
- RoHS compliant*

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3310 - 9 mm Square Sealed Panel Control

Product Dimensions

COMMON DIMENSIONS
3310-002
Metal Bushing

NOTE: * Only recommended shaft length for bushingless version

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3310 - 9 mm Square Sealed Panel Control

Product Dimensions

COMMON DIMENSIONS
3310H-003
Pot/Switch Dual Cup
Plastic Bushing

3310H-025*
Pot/Pot Dual Cup
Bushingless

3310H-002
Pot/Pot Dual Cup
Metal Bushing

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