**FEATURES**
- Compatible with SMT Assembly
- Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact

**DIMENSIONS**

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Length (inches)</th>
<th>Length (metric)</th>
<th>Carrier Width</th>
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<tbody>
<tr>
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<td>7.1 mm</td>
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* For other lengths, contact Grayhill, Inc.

**CIRCUITRY**

As viewed from the top of the switch in the positions shown in the drawing.

**SPECIFICATIONS**

Ratings
- Mechanical Life: 20,000 operations per switch position
- Make and Break Current Rating: 10,000 operations per switch position at 1 mA, 5 Vdc; 50 mA, 30 Vdc; or 150 mA, 30 Vdc
- Contact Resistance:
  - Initially: ≤ 30 mΩ
  - After life: ≤ 100 mΩ at 10 mA, 50 Vdc, open circuit
- Insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts
  - Initially (megohms): ≥ 10,000
  - After life: 750 V
- Current Carry Rating: 5 A, maximum rise of 20°C
- Switch Capacitance: 2 pF at 1 megahertz

**Environmental**
- Meets all requirements of MIL-S-83504. Where Grayhill performance is superior, the MIL spec is listed in parentheses
- Vibration: Per method 204, Test Condition B 1 microsecond opening (10 microseconds allowed)
- Mechanical Shock: Per Method 213, Test Condition A. 1 microsecond opening (10 microseconds allowed)
- Moisture Resistance: Per specification, Method 106
- Thermal Shock: Per specification; no failures; passes contact resistance
- Thermal Aging: 1,000 hours at 85°C; no failures

**Materials and Finishes**
- Shorting Member: Brass, gold plated 10 microinches minimum over nickel barrier. 
- Base Contacts: Copper alloy, gold plated 10 microinches minimum over nickel barrier. 
- Terminals: Copper alloy, solder plated over nickel barrier. 
- Solderability: Per MIL-STD-202, Method 208 Non-Conductive Parts: Cover is natural color thermoplastic, actuators are white thermoplastic, UL94V–O rating.

**ORDERING INFORMATION:** Tape and Reel Packaging (500 switches per reel)

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Available from your local Grayhill Distributor For prices and discounts, contact a local Sales Office, an authorized local Distributor, or Grayhill. Evaluation reels containing 25 switches are available. Contact Sales Office.