Features
- Available sharp click feel with a positive tactile feedback
- Ultraminiature and lightweight structure suitable for high density mounting
- Economical
- Reliable
- RoHS compliant*

**OBSCOLETE**

The STS Series is currently available, although not recommended for new designs.

**BOURNS**

STS Series - Ultraminiature Tactile Switch

**Electrical Characteristics**
- Electrical Life: 50,000 Cycles for 160 gf, 320 gf
- Rating: 50 mA, 12 VDC
- Contact Resistance: 100 mΩ max.
- Insulation Resistance: 100 MQ min. @ 500 VDC
- Dielectric Strength: 250 VAC/1 minute
- Contact Arrangement: SPST

**Environmental Characteristics**
- Operation Temperature Range: -25 °C to +70 °C
- Storage Temperature Range: -30 °C to +80 °C
- Vibration Test: MIL-STD-202F Method 201A, Frequency: 10-55-10 Hz/1 minute, Directions: X, Y, Z, three mutually perpendicular directions
- Time: 2 hours each direction
- Shock Test: MIL-STD-202F Method 213B Condition A, Gravity: 50 G (peak value), 11 msec, Direction and Times: 8 sides and 3 times in each direction

**Physical Characteristics**
- Cover Materials: Stainless Steel
- Base Materials: UL94V-0 Nylon Thermoplastic
- Actuator: UL94V-0 Nylon High-Temperature Thermoplastic
- Contact Disc: Stainless steel with silver cladding
- Terminals: Brass with silver cladding

**How to Order**

<table>
<thead>
<tr>
<th>Model</th>
<th>STS</th>
<th>M</th>
<th>3</th>
<th>1</th>
<th>S</th>
<th>TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style</td>
<td>M = Surface Mount &quot;M&quot; Style</td>
<td>G = Surface Mount &quot;G&quot; Style</td>
<td>H = Through-hole &quot;H&quot; Style</td>
<td></td>
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<tr>
<td>Product Size</td>
<td>3 = 3.5 mm wide x 6 mm long</td>
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<tr>
<td>Height</td>
<td>1 = 4.3 mm</td>
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<tr>
<td>2 = 6.0 mm</td>
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<tr>
<td>Color of Stem for Actuating Force</td>
<td>N = Brown, 160 g</td>
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<tr>
<td>R = Red, 260 g</td>
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<tr>
<td>S = Salmon, 320 g</td>
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<tr>
<td>Y = Yellow, 520 g</td>
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<tr>
<td>Packaging Option</td>
<td>= Stkl. Packaging - 135 pcs/tube</td>
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<tr>
<td>TR = Tape &amp; Reel Packaging</td>
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<tr>
<td>31 = 1800 pcs/ree (STS M &amp; STSG only)</td>
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<tr>
<td>32 = 1600 pcs/ree (STS M &amp; STSG only)</td>
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</tbody>
</table>

**Product Dimensions**

**Circuit Diagram**

11

12

TOLERANCES: ± 0.2 (0.008)

DIMENSIONS ARE: MIL (INCHES)

**Reflow Soldering Profile**

Max Temp: 265°C
1-cycle reflow

150°C
150-150 Sec.
5 Sec.

50°C
50 Sec.

STSH Series - Ultraminiature Tactile Switch

**Product Dimensions**

<table>
<thead>
<tr>
<th>STSH</th>
<th>STSQ</th>
<th>STSM</th>
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**Packaging Specifications**

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<tr>
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<th>STSM</th>
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</table>

**TOLERANCES:** ± 0.2 (.008)

**DIMENSIONS ARE:** MM (INCHES)

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REV. 02/06

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