

**SERIES 95C**  
6mm Square, Non-washable

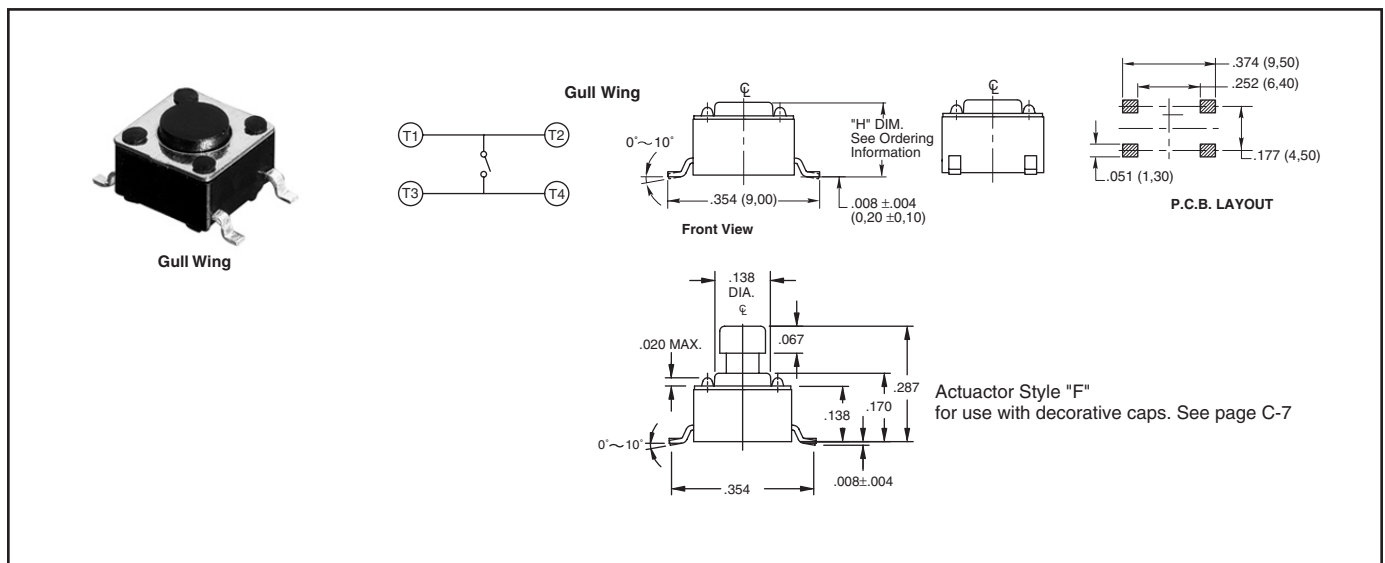
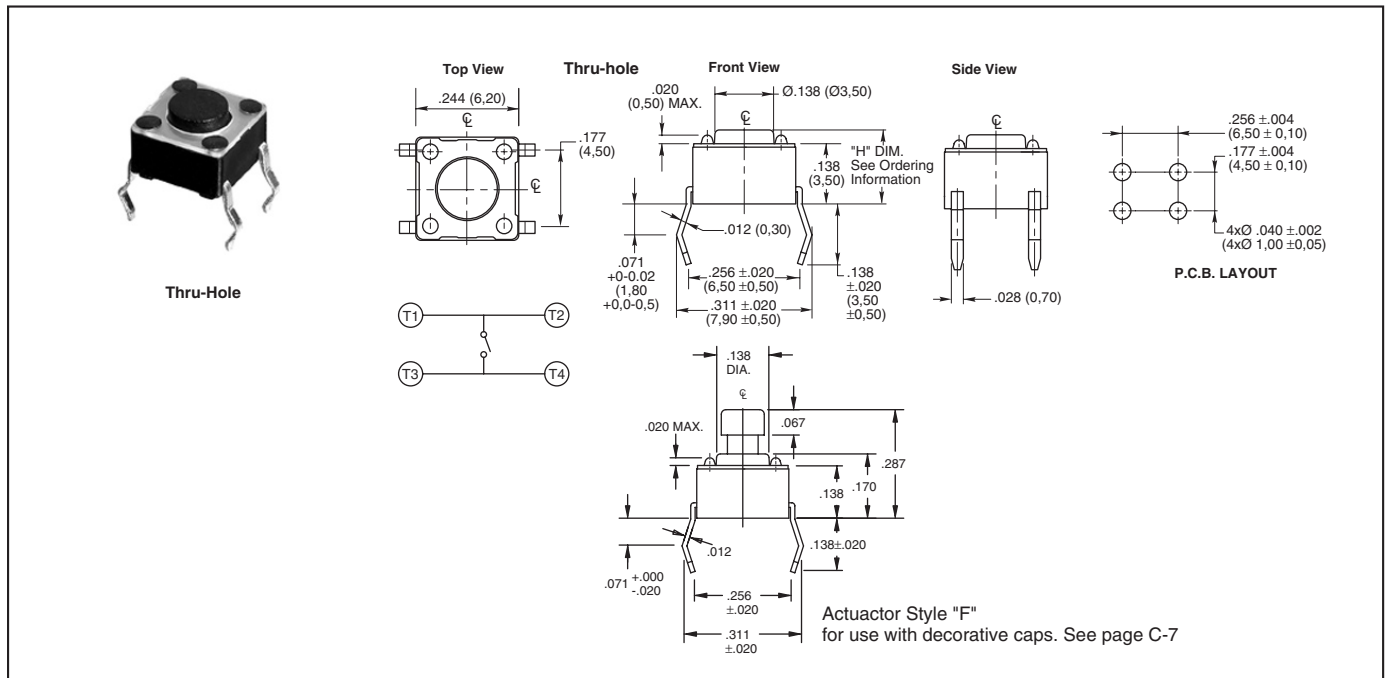
**FEATURES**

- Excellent Tactile Feedback
- Thru-hole, Gull Wings, and Right Angle Versions
- Surface Mount Versions Compatible with SMT Assembly Including Infrared and Vapor Phase
- Ultraminiature and Lightweight Structure Suitable for High Density Mounting

**APPLICATIONS**

Used in applications such as consumer electronics, audio equipment, PCs, VCRs, cable boxes, modems, communications equipment, controls, security and alarm equipment, and test and measurement equipment.

**DIMENSIONS: Non-Washable Switches** in inches (and millimeters)



**DIMENSIONS: Non-Washable Switches** in inches (and millimeters)

**Right Angle**

**Top View**

**Right Angle**

**Side View**

**P.C.B. LAYOUT**

**Actuator Style "F" for use with caps. See page**

**"H" DIM. See Ordering Information**

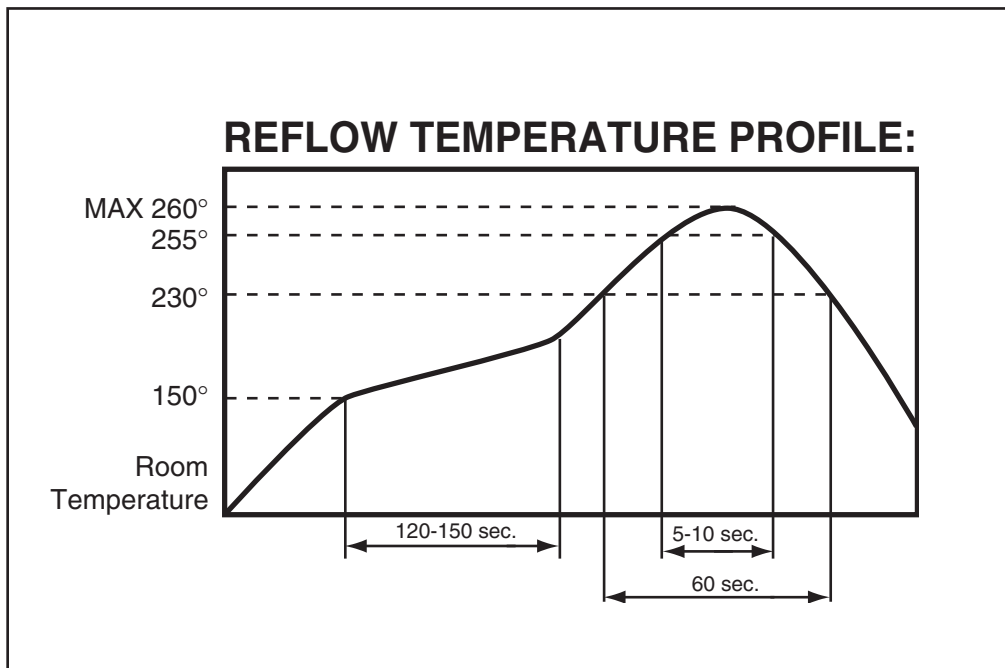
**Ground Terminal**

**F1** **F2**

**T1** **T2**

Dimensions (inches and millimeters):

- Top View: .012 (0,30) MAX., .291 (7,40)
- Right Angle: .157 (4,00), .283 (7,20), .016 (0,40), .028 (0,70), .177 (4,50), .276 ± .020 (7,00 ± 0,50), .335 ± .016 (8,50 ± 0,40), .138 (3,50), ± .020 (± 0,50), 0.071 ± 0.00-0.020 (1.800 ± 0.00-0.50)
- Side View: .258 (6,55), Ø.138 (Ø3,50), .012 (0,30), .100 (2,55), .028 (0,70), .098 (2,50)
- P.C.B. LAYOUT: .276 ± .004 (7,00 ± 0,10), 4x.039 ± .002 (4xØ1,0 ± 0,05), .098 ± .004 (2,50 ± 0,10), .177 ± .004 (4,50 ± 0,10)
- Actuator Style "F": .258, .095, .063, .067, .012, .100, .124, .028, .098, .242



Tact Switches

**ORDERING INFORMATION: Non-Washable Switches**

<p><b>Thru-Hole and Gull Wing</b></p> <p><b>95C06A2GWRT</b></p>	<p><b>Series</b>  <b>Size:</b> 06 = 6mm Square  <b>Height ("H"):</b> A = .169 (4,29), B = .197 (5,00), C = .276 (7,01), D = .374 (9,50), E = .512 (13,00)                  F = .287 (7,29) for use with decorative caps  <b>RoHS compliant</b>  <b>Packaging:</b> Blank = Tube or bulk, R = Tape and Reel (see pkg note)  <b>Terminal Style:</b> Blank = Thru-hole, GW = Gull Wing  <b>Operating Force (Actuator Color):</b> 2 = 100g (Black), 3 = 160g (Brown), 4 = 260g (Red), 5 = 320g (Orange), 6 = 520g (Yellow)</p>
<p><b>Right Angle</b></p> <p><b>95C06A2RAT</b></p>	<p><b>Series</b>  <b>Size:</b> 06 = 6mm Square  <b>Height ("H"):</b> A = .124 (3,14), B = .152 (3,86), C = .230 (5,84), D = .329 (8,36), E = .467 (11,86)                  F = .242 (6,15) for use with decorative caps  <b>RoHS compliant</b>  <b>Terminal Style:</b> RA = Right Angle  <b>Operating Force (Actuator Color):</b> 2 = 100g (Black), 3 = 160g (Brown), 4 = 260g (Red)</p>

**Packaging** Thru-Hole: Bulk, 1000 pcs/bag. Surface Mount: 77 pcs/tube, 1000 pcs/reel (.169" height), 900 pcs/reel (.197" height), 500 pcs/reel (.276" and .287" height), 380 pcs/reel (.374" height). Right Angle: Bulk, 1000 pcs/bag.

**SPECIFICATIONS:**

**Non-Washable Switches**

**Materials**

**Base:** UL94V-0 Nylon thermoplastic  
**Cover:** Stainless steel, tin-plated steel  
**Actuator:** UL94V-0 Nylon thermoplastic  
**Terminal:** Brass with silver-plating  
**Contact:** Stainless steel with silver-plating  
**Cap:** Thermoplastic ABS

**Electrical**

**Rating:** 50mA, 12 Vdc  
**Life:** 100g, 160g: 1,000,000 cycles;  
 260g: 500,000 cycles  
 320g, 520g, 300,000 cycles  
**Actuator Travel:** .010" + .008"/ - .004"  
**Contact Resistance:** 100 mΩ max.  
**Insulation Resistance:** 100 MΩ min. at 500Vdc

**Dielectric Strength:** No dielectric breakdown after 250V for one minute

**Contact Arrangement:** single pole, single throw

**Environmental**

**Operating Temp. Range:** -25 to 70°C  
**Storage Temp. Range:** -30 to 80°C  
**Mechanical Shock:** MIL-STD-202F, Method 213B, Test Condition A. Gravity: 50G's (peak value), 11 msec. Direction and times: 6 sides and 3 times in each direction. High reliability.  
**Vibration:** MIL-STD-202F, Method 201A. Passed 6 hours (2 hours in each) of three perpendicular planes at a cycle of 10-55-10Hz/minute. High reliability.

**Soldering Process**

**Hand Soldering:** Use a soldering iron of 30 watts, controlled at 350°C for 5 seconds maximum while applying solder.

**Reflow Soldering** (surface mount versions only): Peak temperature 260°C (500°F).

**Wave Soldering:** 260°C (500°F) maximum for 5 seconds subject to PCB .063 in. (1,6mm) thickness.

**Available from your local Grayhill Component Distributor.**

For prices and discounts, contact a local Sales Office, an authorized local distributor, or Grayhill.

**DECORATIVE CAPS (for use with "F" style square actuators)**

<p>6mm SQUARE</p> <p>figure 1</p>	<p>6mm ROUND</p> <p>figure 2</p>	<table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>SWITCH SIZE</th> <th>SHAPE</th> <th>COLOR</th> <th>FIGURE</th> </tr> </thead> <tbody> <tr><td>95CAP-000</td><td>6mm</td><td>SQUARE</td><td>YELLOW</td><td>1</td></tr> <tr><td>95CAP-001</td><td>6mm</td><td>SQUARE</td><td>BLUE</td><td>1</td></tr> <tr><td>95CAP-002</td><td>6mm</td><td>SQUARE</td><td>RED</td><td>1</td></tr> <tr><td>95CAP-003</td><td>6mm</td><td>SQUARE</td><td>NATURAL</td><td>1</td></tr> <tr><td>95CAP-004</td><td>6mm</td><td>SQUARE</td><td>BLACK</td><td>1</td></tr> <tr><td>95CAP-005</td><td>6mm</td><td>SQUARE</td><td>GREEN</td><td>1</td></tr> <tr><td>95CAP-006</td><td>6mm</td><td>SQUARE</td><td>ORANGE</td><td>1</td></tr> <tr><td>95CAP-010</td><td>6mm</td><td>ROUND</td><td>YELLOW</td><td>2</td></tr> <tr><td>95CAP-011</td><td>6mm</td><td>ROUND</td><td>BLUE</td><td>2</td></tr> <tr><td>95CAP-012</td><td>6mm</td><td>ROUND</td><td>RED</td><td>2</td></tr> <tr><td>95CAP-013</td><td>6mm</td><td>ROUND</td><td>NATURAL</td><td>2</td></tr> <tr><td>95CAP-014</td><td>6mm</td><td>ROUND</td><td>BLACK</td><td>2</td></tr> <tr><td>95CAP-015</td><td>6mm</td><td>ROUND</td><td>GREEN</td><td>2</td></tr> <tr><td>95CAP-016</td><td>6mm</td><td>ROUND</td><td>ORANGE</td><td>2</td></tr> </tbody> </table>	PART NUMBER	SWITCH SIZE	SHAPE	COLOR	FIGURE	95CAP-000	6mm	SQUARE	YELLOW	1	95CAP-001	6mm	SQUARE	BLUE	1	95CAP-002	6mm	SQUARE	RED	1	95CAP-003	6mm	SQUARE	NATURAL	1	95CAP-004	6mm	SQUARE	BLACK	1	95CAP-005	6mm	SQUARE	GREEN	1	95CAP-006	6mm	SQUARE	ORANGE	1	95CAP-010	6mm	ROUND	YELLOW	2	95CAP-011	6mm	ROUND	BLUE	2	95CAP-012	6mm	ROUND	RED	2	95CAP-013	6mm	ROUND	NATURAL	2	95CAP-014	6mm	ROUND	BLACK	2	95CAP-015	6mm	ROUND	GREEN	2	95CAP-016	6mm	ROUND	ORANGE	2
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