Series YB2
Panel Seal Pushbuttons

General Specifications

Electrical Capacity (Resistive Load)
- Power Level (silver): 3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC
- Logic Level (gold): 0.4VA maximum @ 28V AC/DC maximum
  (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Other Ratings
- Contact Resistance: 50 milliohms maximum for silver; 100 milliohms maximum for gold
- Insulation Resistance: 200 megohms minimum @ 500V DC
- Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum;
  1,500V AC minimum between contacts & case for 1 minute minimum
- Mechanical Life: 1,000,000 operations minimum for momentary circuit
  200,000 operations minimum for maintained circuit
- Electrical Life: 100,000 operations minimum
- Nominal Operating Force:
  Single pole: 1.5N
  Double pole: 3.0N
- Contact Timing:
  Nonshorting (break-before-make)
  Travel: Pretravel .059” (1.5mm); Overtravel .059” (1.5mm); Total Travel .118” (3.0mm)

Materials & Finishes
- Bezel: Black: Glass fiber reinforced polyamide (UL94V-0);
  Chrome plated: Chrome plating over ABS resin (UL94V-2)
- Housing: Glass fiber reinforced polyamide (UL94V-0)
- Base: Glass fiber reinforced polyamide (UL94V-0)
- Movable Contactor: Phosphor bronze with silver or gold plating
- Movable Contacts: Silver alloy or copper with gold plating
- Stationary Contacts: Silver alloy or copper with gold plating
- Switch Terminals: Phosphor bronze with tin plating
- Lamp Terminals: Phosphor bronze with tin plating

Environmental Data
- Operating Temperature Range:
  Illuminated: –25°C through +50°C (–13°F through +122°F)
  Nonilluminated: –25°C through +70°C (–13°F through +158°F)
- Humidity: 90 ~ 95% humidity for 240 hours @ 40°C (104°F)
- Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning
  in 1 minute; 3 right angled directions for 2 hours
- Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
- Sealing: IP65 of IEC60529 standard

Installation
- Mounting Torque: 0.785Nm (6.95 lb•in) maximum
- Soldering Time & Temperature:
  Manual Soldering: See Profile A in Supplement section.

Standards & Certifications
- Flammability Standards: UL94V-0 housing, base & black bezel
- UL: File No. E44145 - Recognized only when ordered with marking on switch.
  Add “/CUL” before first dash in part number to order CULus marking on switch.
  All solder lug models recognized at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.

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24mm square and 25mm diameter pushbuttons with the shortest above-panel dimension (1.8mm) in the industry for splashproof design.

Meets IP65 of IEC60529 standards (similar to NEMA 4 and 13), providing dust tight and splashproof panel seal protection.

Tamper resistant 18mm square and 19mm diameter actuators.

Short body of .965” (24.5mm) conserves behind-panel space.

Distinctive long stroke and light touch actuation for clear indication of circuit status.

Choice of cap colors includes clear, brushed chrome, red, green, or yellow, for enhanced panel appearance. Metallic silver cap option has bright ring illumination (round only). Unbrushed chrome has the look of stainless steel when non-illuminated, and LED color or legends when illuminated.

Brilliant illumination with multiple LED colors.

Bezel color options in black or brushed chrome.

Brushed chrome option is lighter weight than actual metal switches due to metal plating on resin.

Available in momentary and alternate action with latchdown.

Crisp actuation and clear circuit status provided by snap-action contact mechanism. Arc barrier protects against crossover.

Combination solder lug and .110” quick connect terminals. Terminals are epoxy sealed to lock out flux, dust, solvents, and other contaminants, as well as to secure terminals and improve contact stability.

Custom legends on actuator or inserts.
**Series YB2**

Panel Seal Pushbuttons

**TYPICAL SWITCH**

<table>
<thead>
<tr>
<th>YB2</th>
<th>1</th>
<th>5</th>
<th>C</th>
<th>W</th>
<th>C</th>
<th>K</th>
<th>W</th>
<th>01</th>
</tr>
</thead>
</table>

**Poles**
- 1: SPDT
- 2: DPDT

**Contact Point**
- C: Normally Open and Normally Closed

**Shape**
- C: Round
- S: Square

**Terminals**
- 01: Solder Lug/.110” (2.8mm) Quick Connect

**Circuits**
- 5 ON (ON)
- 6 ON (ON) = Momentary
- Alternate Action with Latchdown

**Panel Seal**
- W: With Panel Seal

**Bezel**
- K: Black
- P: Brushed Chrome

**Contact Materials & Ratings**
- W: Silver Rated 3A @ 125V AC
- G: Gold Rated 0.4VA maximum @ 28V AC/DC maximum

**IMPORTANT:**

Switches are supplied without cULus marking unless specified. cULus recognized only when ordered with marking on the switch. Specific models, ratings, and ordering instructions are noted on General Specifications page.

**DESCRIPTION FOR TYPICAL ORDERING EXAMPLE**

**YB215CWCKW01-6B-JB**

- White, Super Bright LED
- Black Bezel
- Round Black Housing
- SPDT ON-(ON) Circuit
- LED Cap with Clear Lens & White Diffuser
- With Panel Seal
- Silver Contacts with 3 Amp Rating
- Solder Lug/.110” (2.8mm) Quick Connect Terminals

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ORDERING EXAMPLE

6 B

LEDS

Cap Types & Colors

Bright LED

<table>
<thead>
<tr>
<th>LED Colors</th>
<th>Resistor</th>
<th>No Resistor (not for Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5C</td>
<td>Red</td>
<td>No Code</td>
</tr>
<tr>
<td>5D</td>
<td>Amber</td>
<td>05 5-volt</td>
</tr>
<tr>
<td>5F</td>
<td>Green</td>
<td>12 12-volt</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 24-volt</td>
</tr>
</tbody>
</table>

Super Bright LED

| 6B         | White    |
| 6F         | Green    |
| 6G         | Blue     |

Nonilluminated

| N         | No Lamp  |

LED and cap need to be the same color. Yellow cap pairs with amber LED to achieve amber illumination. Codes JB and JS (Round only) may be combined with all LED colors.

Lens/Diffuser Colors

<table>
<thead>
<tr>
<th>Lens/Diffuser Colors</th>
<th>Cap Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>JB Clear/White</td>
<td>Clear/White</td>
</tr>
<tr>
<td>JS Metallic Silver Cap/Clear Ring (Round only)</td>
<td>Metallic Silver Cap/Clear Ring (Round only)</td>
</tr>
<tr>
<td>CB Red/White</td>
<td>Red/White</td>
</tr>
<tr>
<td>EB Yellow/White</td>
<td>Yellow/White</td>
</tr>
<tr>
<td>FB Green/White</td>
<td>Green/White</td>
</tr>
<tr>
<td>HB Unbrushed Chrome/White</td>
<td>Unbrushed Chrome/White</td>
</tr>
</tbody>
</table>

Round or Square Cap with Legend

- Contact factory for custom options.

Part Numbers for Unbrushed Chrome Caps with Legends

<table>
<thead>
<tr>
<th>Round Cap for Bright LED</th>
<th>Round Cap for Super Bright LED</th>
<th>Square Cap for Bright or Super Bright LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT3017HB-001</td>
<td>AT3018HB-001</td>
<td>AT3025HB-001</td>
</tr>
<tr>
<td>AT3017HB-002</td>
<td>AT3018HB-002</td>
<td>AT3025HB-002</td>
</tr>
<tr>
<td>AT3017HB-003</td>
<td>AT3018HB-003</td>
<td>AT3025HB-003</td>
</tr>
<tr>
<td>AT3017HB-004</td>
<td>AT3018HB-004</td>
<td>AT3025HB-004</td>
</tr>
<tr>
<td>AT3017HB-005</td>
<td>AT3018HB-005</td>
<td>AT3025HB-005</td>
</tr>
</tbody>
</table>

Contact factory for custom options.
### Series YB2

#### Panel Seal Pushbuttons

<table>
<thead>
<tr>
<th>POLES &amp; CIRCUITS</th>
<th>Connected Terminals</th>
<th>Throw &amp; Switch/Lamp Schematics</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Model</td>
<td>Normal Down</td>
<td>Normal Down</td>
<td></td>
</tr>
<tr>
<td>SP YB215 YB216</td>
<td>ON ON (ON) ON</td>
<td>1-3 1-2</td>
<td>Switch is marked with NC, NO, COM, L+, L-. Lamp circuit is isolated and requires an external power source.</td>
</tr>
<tr>
<td>DP YB225 YB226</td>
<td>ON ON (ON) ON</td>
<td>1-3 4-6 1-2 4-5</td>
<td></td>
</tr>
</tbody>
</table>

#### CONTACT POINT

- **C** Normally Open and Normally Closed
  
  Contact points are both Normally Open and Normally Closed.

#### PANEL SEAL

- **W** Panel Seal (Round and Square)
  
  Two o-rings provide panel seal protection meeting IP65 of IEC60529 standards.

#### SHAPE

- **C** Round
- **S** Square

#### BEZEL

- **K** Black
- **P** Brushed Chrome

#### CONTACT MATERIALS & RATINGS

- **W** Silver Contacts
  
  Power Level: 3A @ 125/250V AC
  
  Switch base is black

- **G** Gold Contacts
  
  Logic Level: 0.4VA max. @ 28V AC/DC max.
  
  Switch base is ivory

#### TERMINALS

- **01** Solder Lug/ .110” (2.8mm) Quick Connect

---

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## BRIGHT & SUPER BRIGHT LEDs

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires an external power source. If the source voltage exceeds the rated voltage, a ballast resistor is required. Base of AT634 and AT636 is Black for 5V, Light Blue for 12V and Gray for 24V.

### Electrical Specifications for Bright LED without Resistor

#### Bright AT628

<table>
<thead>
<tr>
<th>Colors Available:</th>
<th><strong>5C</strong> Red</th>
<th><strong>5D</strong> Amber</th>
<th><strong>No Code</strong> No Resistor</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Colors</td>
<td>Red</td>
<td>Amber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Forward Current</td>
<td>$I_{FM}$</td>
<td>40</td>
<td>40</td>
<td>mA</td>
</tr>
<tr>
<td>Typical Forward Current</td>
<td>$I_f$</td>
<td>26</td>
<td>26</td>
<td>mA</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>$V_f$</td>
<td>1.9</td>
<td>2.0</td>
<td>V</td>
</tr>
<tr>
<td>Maximum Reverse Voltage</td>
<td>$V_{RM}$</td>
<td>4</td>
<td>4</td>
<td>V</td>
</tr>
<tr>
<td>Current Reduction Rate Above 25°C</td>
<td>$\Delta I_f$</td>
<td>0.50</td>
<td></td>
<td>mA/°C</td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td></td>
<td>$-25 \sim +50$</td>
<td></td>
<td>°C</td>
</tr>
</tbody>
</table>

### Electrical Specifications for Bright Red & Amber LED with Resistor

#### Bright AT634

<table>
<thead>
<tr>
<th>Colors Available:</th>
<th><strong>5C</strong> Red</th>
<th><strong>5D</strong> Amber</th>
<th><strong>05</strong></th>
<th><strong>12</strong></th>
<th><strong>24</strong></th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1 ½ Bi-pin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Forward Current</td>
<td>$I_{FM}$</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>mA</td>
</tr>
<tr>
<td>Typical Forward Current</td>
<td>$I_f$</td>
<td>25</td>
<td>20</td>
<td>10</td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>$V_f$</td>
<td>5</td>
<td>12</td>
<td>24</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Maximum Reverse Voltage</td>
<td>$V_{RM}$</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Current Reduction Rate Above 25°C</td>
<td>$\Delta I_f$</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td>mA/°C</td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td></td>
<td>$-25 \sim +50$</td>
<td></td>
<td></td>
<td></td>
<td>°C</td>
</tr>
</tbody>
</table>

#### AT634 5-volt, 2-element with Resistor

#### AT634 12-volt, 4-element with Resistor

#### AT634 24-volt, 4-element with Resistor

### Electrical Specifications for Super Bright LED

#### Super Bright AT625G Blue AT631B White AT632F Green

<table>
<thead>
<tr>
<th>Colors:</th>
<th><strong>6B</strong> White</th>
<th><strong>6F</strong> Green</th>
<th><strong>6G</strong> Blue</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1 Bi-pin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Forward Current</td>
<td>$I_{FM}$</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Typical Forward Current</td>
<td>$I_f$</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>$V_f$</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Maximum Reverse Voltage</td>
<td>$V_{RM}$</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Current Reduction Rate Above 25°C</td>
<td>$\Delta I_f$</td>
<td>0.40</td>
<td>0.40</td>
<td>0.40</td>
</tr>
<tr>
<td>Ambient Temperature Range</td>
<td></td>
<td>$-25 \sim +50$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Series YB2**

**Panel Seal Pushbuttons**

**BALLAST RESISTOR CALCULATION FOR LEDS**

If the source voltage is greater than the rated voltage of a lamp or LED, a ballast resistor must be connected in series with the lamp. This circuit diagram and formula will assist in calculating the value of the required ballast resistor.

\[
R = \frac{E - V_F}{I_F}
\]

Where:
- \( R \) = Resistor Value (Ohms)
- \( E \) = Source Voltage (V)
- \( V_F \) = Forward Voltage (V)
- \( I_F \) = Forward Current (A)

**CAPS & CAP COLORS**

**AT3017 Cap for Bright LED or Nonilluminated**

<table>
<thead>
<tr>
<th>Lens/Diffuser Colors Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JB</strong> Clear/White</td>
</tr>
<tr>
<td><strong>CB</strong> Red/White</td>
</tr>
<tr>
<td><strong>EB</strong> *Yellow/White</td>
</tr>
<tr>
<td><strong>FB</strong> Green/White</td>
</tr>
<tr>
<td><strong>HB</strong> Unbrushed Chrome/White</td>
</tr>
</tbody>
</table>

*Yellow cap pairs with amber LED to achieve amber illumination.

**AT3018 Cap for Super Bright LED**

<table>
<thead>
<tr>
<th>Lens/Diffuser Colors Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JB</strong> Clear/White</td>
</tr>
</tbody>
</table>

**AT3019 Cap for Nonilluminated**

<table>
<thead>
<tr>
<th>Lens/Diffuser Colors Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JB</strong> Clear/White</td>
</tr>
<tr>
<td><strong>HB</strong> Unbrushed Chrome/White</td>
</tr>
</tbody>
</table>

**AT3020 Cap with Illumination Ring for Bright or Super Bright LED**

<table>
<thead>
<tr>
<th>Cap Color Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong> Brushed Chrome</td>
</tr>
<tr>
<td><strong>JS</strong> Metallic Silver with Clear Ring</td>
</tr>
</tbody>
</table>

**AT3025 Cap for Illuminated or Nonilluminated**

<table>
<thead>
<tr>
<th>Lens/Diffuser Colors Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JB</strong> Clear/White For Bright &amp; Super Bright LEDs</td>
</tr>
<tr>
<td><strong>CB</strong> Red/White For Bright LED only</td>
</tr>
<tr>
<td><strong>EB</strong> *Yellow/White For Bright LED only</td>
</tr>
<tr>
<td><strong>FB</strong> Green/White For Bright LED only</td>
</tr>
<tr>
<td><strong>HB</strong> Unbrushed Chrome/White For Bright &amp; Super Bright LEDs</td>
</tr>
</tbody>
</table>

*Yellow cap pairs with amber LED to achieve amber illumination.

**AT3027 Cap for Nonilluminated**

<table>
<thead>
<tr>
<th>Cap Color Available:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong> Brushed Chrome</td>
</tr>
</tbody>
</table>

**Material for Lens & Diffuser:**
- Polycarbonate
- HB Lens: ABS Resin & Unbrushed Chrome Plating
- Material for Lens: ABS Resin & Brushed Chrome Plating
- Materials
  - Lens: Polycarbonate
  - Insert: Polyester

**Material for Lens & Diffuser:**
- Clear/White For Bright & Super Bright LEDs
- Red/White For Bright LED only
- *Yellow/White For Bright LED only
- Green/White For Bright LED only
- Unbrushed Chrome/White For Bright & Super Bright LEDs

- .748 (19.0) Dia
- .709 (18.0) Sq
- .516 (13.1)
- .193 (4.9)

**Material for Lens:**
- ABS Resin & Brushed Chrome Plating

- .709 (18.0) Sq
- .516 (13.1)
- .193 (4.9)
- .748 (19.0) Dia
Panel Seal Pushbuttons

Standard Legends for Unbrushed Chrome Caps

001
![Power Symbol](image1)
Round or Square Cap
Bright or Super Bright LED

002
![Start Symbol](image2)
Round or Square Cap
Bright or Super Bright LED

003
![Standby Symbol](image3)
Round or Square Cap
Bright or Super Bright LED

004
![Stop Symbol](image4)
Round or Square Cap
Bright or Super Bright LED

005
![Power Symbol](image5)
Round or Square Cap
Bright or Super Bright LED

Images appear the color of the LED when lit.
Contact factory for other legends options.
Legend illustrations are approximate representations of the actual images on the caps.

Unbrushed Chrome/White Cap with Lens/Diffuser

Without Illumination
![Unbrushed Chrome Cap](image6)

With Illumination
![Unbrushed Chrome Cap with Lens](image7)

Depending on the design and the color of ink used, the legend may be visible when it is not illuminated.
It is recommended that the legend be clear and without ink in order to achieve the maximum visibility when the cap is illuminated.

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### TYPICAL SWITCH DIMENSIONS

**Single Pole**

- YB215CWCKW01-6B-JB

**Double Pole**

- YB216CWSPW01-N-P

### PANEL THICKNESS & CUTOUT

**Recommended Panel Thickness**

- .020” ~ .197” (0.5mm ~ 5.0mm)

**Side-by-side Mounting**

- [Diagram of side-by-side mounting]
### Optional Accessories

#### Adaptors

**AT716**  
Single Pole  
Solder Lug/Quick Connect Terminals

**AT717**  
Double Pole  
Solder Lug/Quick Connect Terminals

**AT718**  
Single Pole  
Straight PC Terminals

**AT719**  
Double Pole  
Straight PC Terminals

---

**Material:** Glass fiber reinforced polyamide  
**Note:** Order adaptors separately

---

**Round & Square Switch Dimensions Shown with Adaptor AT716**

**Dimension A:**  
Solder Lug .197” (5.0mm); Straight PC .157” (4.0mm)

**Panel thickness for YB2 Round:**  
.020” ~ .161” (0.5mm ~ 4.1mm)  
**Panel thickness for YB2 Square:**  
.020” ~ .126” (0.5mm ~ 3.2mm)

---

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ASSEMBLY INSTRUCTIONS FOR ROUND

1. Remove knurled mounting nut.

2. Remove bezel and red o-ring from housing. There are two o-rings in this assembly: one is red, one is orange.

3. Install LED.

LEDs AT634 & AT636

Align D-flat on LED with Part Number on switch for appropriate polarity and insert LED into base.

LED AT628

Align D-flat on LED with Part Number on switch for appropriate polarity and insert LED into base.

LEDs AT625G, AT631B, AT632F

The larger metal part within the LED represents the cathode (–). Align LED for appropriate polarity and insert LED into base.

4. Align tabs (B) on both sides of actuator with the projections (A) inside of the housing and push actuator firmly down to snap in.

5. Install the red o-ring which was removed in step 2 at the inside bottom of the bezel.

6. Align tab inside of the bezel with keyway on housing and bring bezel back into its original position.

7. Before installing into panel, make sure that the orange o-ring is present at the back of the bezel. Align keyway on bezel with tab in panel and push switch all the way into the panel.

8. Attach mounting nut behind panel and tighten. Make sure that bezel and actuator fit properly and that there is no space between bezel and panel. Do not overtighten.

Mounting torque: 0.785Nm (6.95 lb•in) maximum. Optional socket wrench AT106 available.
ASSEMBLY INSTRUCTIONS FOR SQUARE

1. Remove knurled mounting nut.

2. Remove bezel and blue o-ring from housing.

3. Install LED.

LEDs
AT634 & AT636

AT628

LEDs AT625G, AT631B, AT632F

4. Align tabs (B) on both sides of actuator with the projections (A) inside of the housing and push actuator firmly down to snap in.

5. Install the blue o-ring which was removed in step 2 at the inside bottom of the bezel.

6. Align tab inside of the bezel with keyway on housing and bring bezel back into its original position.

7. Before installing into panel, make sure that the square gasket is present at the back of the bezel. Align keyway on bezel with tab in panel and push switch all the way into the panel.

8. Attach mounting nut behind panel and tighten. Make sure that bezel and actuator fit properly and that there is no space between bezel and panel. Do not overtighten.

Mounting torque: 0.785Nm (6.95 lb•in) maximum. Optional socket wrench AT106 available.

ATTENTION ELECTROSTATIC SENSITIVE DEVICES

ATTENTION ELECTROSTATIC SENSITIVE DEVICES

Part Number
This Side

Cathode Socket (–)

Anode Socket (+)

Cathode (–)

Anode (+)

The larger metal part within the LED represents the cathode (–). Align LED for appropriate polarity and insert LED into base.

Align D-flat on LED with Part Number on switch for appropriate polarity and insert LED into base.

Align D-flat on LED with Part Number on switch for appropriate polarity and insert LED into base.

ATTENTION ELECTROSTATIC SENSITIVE DEVICES

Knurled Mounting Nut

Spacer

Bezel

Housing

Blue O-ring

Keyway

Tab

Back of Bezel

Panel

Bezel

Plastic Actuator

AT106 Socket Wrench

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**Series YB2**

**Panel Seal Pushbuttons**

---

**LEGENDS**

NKK Switches can provide custom legends for caps. Contact factory for more information.

---

**Suggested Printable Area for YB2 Caps**

**Recommended Methods:** Laser Etch on clear cap, Screen Print or Pad Print on cap.

Epoxy based ink is recommended.

**For Caps**
- AT3017, AT3018, and AT3019

**For Cap**
- AT3020 (with clear ring for illumination)

**For Caps**
- AT3025 and AT3027

Shaded areas are printable areas.

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**Suggested Printable Area for Film Inserts**

**Recommended Method:**
Screen Print; Epoxy based ink is recommended

Film Material and Thickness:
Clear Polyester, 4 mil max.

Shaded areas are printable areas.

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**HANDLING & PRECAUTIONS**

LEDs are electrostatic sensitive devices. When installing and handling LEDs, use an electrostatic protected work station to prevent LED damage.