

# General Specifications

## Electrical Capacity (Resistive Load)

**Power Level (silver):** 5A @ 125/250V AC or 5A @ 30V DC  
**Logic Level (gold):** 0.4VA maximum @ 28V AC/DC maximum  
 (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)  
 Note: Find additional explanation of operating range in Supplement section.

## 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;  
 200,000 operations minimum for alternate action  
**Electrical Life:** 10,000 operations minimum for silver;  
 200,000 operations minimum for gold  
**Nominal Operating Force:** Single Pole: 1.90N  
 Double Pole: 2.55N  
**Contact Timing:** Break before make  
**Travel:** Pretravel .067" (1.7mm); Overtravel .024" (0.6mm); Total Travel .091" (2.3mm)

## Materials & Finishes

**Housing/Bezel:** Glass fiber reinforced polyamide (UL94V-0)  
**Snap-in Frame:** Stainless steel  
**Movable Contactor:** Phosphor bronze  
**Movable Contacts:** Silver alloy or copper with gold plating  
**Stationary Contacts:** Silver alloy or copper with gold plating  
**Switch Terminals:** Phosphor bronze with silver or gold plating  
**Lamp Terminals:** Brass with tin plating  
**Base:** Glass fiber reinforced liquid crystal polymer (UL94V-0)

## Environmental Data

**Operating Temperature Range:** -25°C through +50°C (-13°F through +122°F) for Illuminated  
 -25°C through +70°C (-13°F through +158°F) for Nonilluminated  
**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/s<sup>2</sup>) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## Installation

**Cap Installation Force:** 15.0N maximum downward force on cap

## Processing

**Soldering:** Wave Soldering (PC version): See Profile A in Supplement section.  
 Manual Soldering: See Profile A in Supplement section.  
**Cleaning:** These devices are not process sealed. Hand clean locally using alcohol based solution.

## Standards & Certifications

**Flammability Standards:** UL94V-0 housing/bezel & base  
**UL:** File No. E44145 - Recognized only when ordered with marking on switch.  
 Add "/U" or "/CUL" before dash in part number to order UL recognized switch.  
 UL recognized only when ordered switch body with cap assembled.  
 All single & double pole models recognized at 5A @ 125/250V AC or 0.014A @ 28V DC.

# Distinctive Characteristics

Wide selection of illumination effects is achieved with single and bicolor, 1- or 6-element LEDs in flat, beveled, or sculptured caps.

Alternating legends (patent pending) in choice of sculptured or flat caps, combined with super bright bicolor LED.

Combination of PCB mountability and short body allows use in compact applications.

Small behind panel dimension for snap-in mounting in tight spaces.

Snap-acting contact mechanism provides sensitive actuation with audible feedback; quick-make, quick-break characteristic limits arcing and prolongs electrical life.

Latchdown mechanism, independent of switching mechanism, gives outstanding stability and reliability plus visible and tactile indication of circuit status.

Terminals are epoxy sealed to lock out flux, solvents, and other contaminants.

Momentary and alternate action circuits available in the same space-saving body size.

Matching indicators available.



Actual Size



TYPICAL SWITCH

ORDERING EXAMPLE

UB2

1

5

SK

G

03

Poles

|   |      |
|---|------|
| 1 | SPDT |
| 2 | DPDT |

Circuits

|   |    |      |
|---|----|------|
| 5 | ON | (ON) |
|---|----|------|

( ) = Momentary

|   |    |    |
|---|----|----|
| 6 | ON | ON |
|---|----|----|

Alternate Action with Latchdown

Mounting Types

PCB Mounting

|    |        |
|----|--------|
| SK | Square |
|----|--------|

\* Snap-in Mounting

|    |        |
|----|--------|
| KK | Square |
|----|--------|

\* Standard with Solder Lug terminals

Terminals

|    |                                   |
|----|-----------------------------------|
| 01 | Solder Lug (for Snap-in Mounting) |
| 03 | Straight PC                       |

Contacts & Ratings

|   |                                      |
|---|--------------------------------------|
| W | Silver Rated 5A @ 125/250V AC        |
| G | Gold Rated 0.4VA max @ 28V AC/DC max |

IMPORTANT:

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

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

UB215SKG035C-1JC

Gold Contacts with 0.4VA Rating

Square with PCB Mounting

Straight PC Terminals

Red, Bright LED and Sculptured Cap with Clear Lens and Red Diffuser

SPDT ON-(ON) Circuit

5C

1JC

LEDs

Bright LED

|    |       |
|----|-------|
| 5C | Red   |
| 5D | Amber |
| 5F | Green |

Super Bright LED

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

Super Bright Bicolor LED

|     |           |
|-----|-----------|
| 6CF | Red/Green |
|-----|-----------|

Nonilluminated

|   |                |
|---|----------------|
| N | Nonilluminated |
|---|----------------|

Cap Types & Colors

Sculptured Cap Lens/Diffuser Colors

|     |             |
|-----|-------------|
| 1JB | Clear/White |
| 1JC | Clear/Red   |
| 1JD | Clear/Amber |
| 1JF | Clear/Green |

Beveled Cap & Colors

|    |       |
|----|-------|
| 2B | White |
| 2C | Red   |
| 2D | Amber |
| 2F | Green |

Flat Cap Lens/Diffuser Colors

|     |             |
|-----|-------------|
| 3JB | Clear/White |
| 3JC | Clear/Red   |
| 3JD | Clear/Amber |
| 3JF | Clear/Green |

Sculptured Cap Lens/Diffuser Color

|     |             |
|-----|-------------|
| 1JB | Clear/White |
|-----|-------------|

Beveled Cap & Color

|    |       |
|----|-------|
| 2B | White |
|----|-------|

Flat Cap Lens/Diffuser Color

|     |             |
|-----|-------------|
| 3JB | Clear/White |
|-----|-------------|

Sculptured Cap Lens/Diffuser Color

|     |             |
|-----|-------------|
| 1JB | Clear/White |
|-----|-------------|

Beveled Cap & Color

|    |       |
|----|-------|
| 2B | White |
|----|-------|

Flat Cap Lens/Diffuser Color

|     |             |
|-----|-------------|
| 3JB | Clear/White |
|-----|-------------|

Sculptured Cap with Alternating Legend

|    |            |
|----|------------|
| 4J | Clear Lens |
|----|------------|

Flat Cap with Alternating Legend

|    |            |
|----|------------|
| 5J | Clear Lens |
|----|------------|

Sculptured Cap Lens/Insert Colors

|     |             |     |             |
|-----|-------------|-----|-------------|
| 4JA | Clear/Black | 4JD | Clear/Amber |
| 4JB | Clear/White | 4JF | Clear/Green |
| 4JC | Clear/Red   |     |             |

Beveled Cap & Colors

|    |       |    |       |
|----|-------|----|-------|
| 5A | Black | 5D | Amber |
| 5B | White | 5F | Green |
| 5C | Red   |    |       |

Alternating Legends

|    |            |
|----|------------|
| 01 | ON/OFF     |
| 02 | START/STOP |
| 04 | OPEN/CLOSE |

### POLES & CIRCUITS

| Pole | Model           | Plunger Position<br>( ) = Momentary                                                         |                                                                                           | Connected Terminals                                                                         |                                                                                           | Throw & Switch/Lamp Schematics                                                                                                                                                     |
|------|-----------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                 | Normal<br> | Down<br> | Normal<br> | Down<br> |                                                                                                                                                                                    |
| SP   | UB215<br>*UB216 | ON<br>ON                                                                                    | (ON)<br>ON                                                                                | 1-3                                                                                         | 1-2                                                                                       | SPDT<br><br> |
| DP   | UB225<br>*UB226 | ON<br>ON                                                                                    | (ON)<br>ON                                                                                | 1-3 4-6                                                                                     | 1-2 4-5                                                                                   | DPDT<br><br> |

\* When in latchdown position for the alternate circuit, cap positions above the housing are:  
.059" (1.5mm) for snap-in models & .276" (7.0mm) for PCB models.

### MOUNTING TYPES & SHAPES

#### PCB Mounting



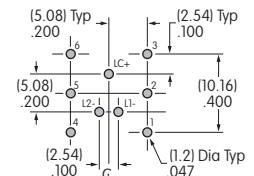
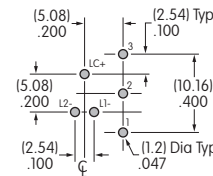
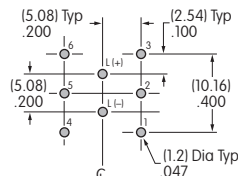
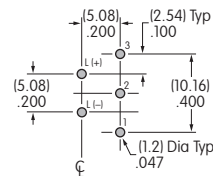
**Square**

SP, Single Color LED

DP, Single Color LED

SP, Bicolor LED

DP, Bicolor LED



#### Snap-in Mounting (Solder Lug)



**Square with Built-in Bezel**



Panel Thickness:  
.039 ~ .126"  
(1.0 ~ 3.2mm)

### CONTACT MATERIALS & RATINGS



**Silver Contacts**

**Power Level**

**5A @ 125V AC & 250V AC**



**Gold Contacts**

**Logic Level**

**0.4VA maximum @ 28V AC/DC maximum**

Complete explanation of operating range in Supplement section.

### SWITCH & LAMP TERMINALS



**Solder Lug**

For Switch & Bright LED

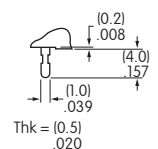
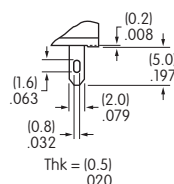
For Super Bright & Bicolor LED



**Straight PC**

For Switch & Bright LED

For Super Bright & Bicolor LED



BRIGHT LED & CAPS

The electrical specifications shown are determined at a basic temperature of 25°C.  
LED circuit is isolated and requires an external power source. Polarity marks are on the bottom of the switch.  
If the source voltage exceeds the rated voltage, a ballast resistor is required.  
The resistor value can be calculated by using the formula in the Supplement section.  
The LED is an integral part of the switch and not available separately.

Electrical Specifications for Bright LED

|                                   |                 | 5C          | 5D    | 5F    |       |
|-----------------------------------|-----------------|-------------|-------|-------|-------|
|                                   | Color           | Red         | Amber | Green | Unit  |
| Maximum Forward Current           | I <sub>FM</sub> | 30          | 30    | 25    | mA    |
| Typical Forward Current           | I <sub>F</sub>  | 20          | 20    | 20    | mA    |
| Forward Voltage                   | V <sub>F</sub>  | 1.85        | 2.0   | 2.1   | V     |
| Maximum Reverse Voltage           | V <sub>RM</sub> | 5           | 5     | 5     | V     |
| Current Reduction Rate Above 25°C | ΔI <sub>F</sub> | 0.40        | 0.42  | 0.46  | mA/°C |
| Ambient Temperature Range         |                 | -25° ~ +50° |       |       | °C    |

Bright Single Color LED with 1 element



Caps for Bright LED



Lens/Diffuser Colors Available:

- JB** Clear/White
- JC** Clear/Red
- JD** Clear/Amber
- JF** Clear/Green

Cap Colors Available:

- B** White
- C** Red
- D** Amber
- F** Green

Lens/Diffuser Colors Available:

- JB** Clear/White
- JC** Clear/Red
- JD** Clear/Amber
- JF** Clear/Green

Material: Polycarbonate      Finish: Glossy

### SUPER BRIGHT LEDs & CAPS

The electrical specifications shown are determined at a basic temperature of 25°C.  
LED circuit is isolated and requires an external power source. Polarity marks are on the bottom of the switch.  
If the source voltage exceeds the rated voltage, a ballast resistor is required.  
The resistor value can be calculated by using the formula in the Supplement section.

The LED is an integral part of the switch and not available separately.

#### Electrical Specifications for Super Bright LEDs

| Super Bright LEDs are Electrostatic Sensitive | Color        | 6B          | 6F    | 6G   | Unit  |
|-----------------------------------------------|--------------|-------------|-------|------|-------|
|                                               |              | White       | Green | Blue |       |
| Maximum Forward Current                       | $I_{FM}$     | 20          | 30    | 30   | mA    |
| Typical Forward Current                       | $I_F$        | 15          | 20    | 20   | mA    |
| Forward Voltage                               | $V_F$        | 3.3         | 3.5   | 3.6  | V     |
| Maximum Reverse Voltage                       | $V_{RM}$     | 5           | 5     | 5    | V     |
| Current Reduction Rate Above 25°C             | $\Delta I_F$ | 0.25        | 0.50  | 0.50 | mA/°C |
| Ambient Temperature Range                     |              | -20° ~ +50° |       |      | °C    |

Super Bright Single Color LED with 1 element



#### Caps for Super Bright LED

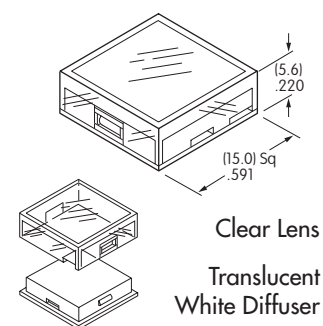
##### 1JB AT3074JB Sculptured Clear Lens/White Diffuser



##### 2B AT3075B Beveled White Cap



##### 3JB AT3076JB Flat Clear Lens/White Diffuser



Material: Polycarbonate

Finish: Glossy

### SUPER BRIGHT BICOLOR LED & CAPS

#### Electrical Specifications for Super Bright Bicolor LED

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |              |                         |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------|-------------------------|-------|
| <p>The electrical specifications shown are determined at a basic temperature of 25°C.<br/>LED circuit is isolated and requires an external power source.<br/>Polarity marks are on bottom of switch.<br/>If the source voltage exceeds the rated voltage, a ballast resistor is required.<br/>The resistor value can be calculated by using the formula in Supplement Section.<br/>The LED is an integral part of the switch and not available separately.</p> | Super Bright LEDs are Electrostatic Sensitive | Color        | 6CF                     | Unit  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |              | Red/Green               |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Maximum Forward Current                       | $I_{FM}$     | 30/25 (25/22 for Amber) | mA    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Typical Forward Current                       | $I_F$        | 20/20                   | mA    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Forward Voltage                               | $V_F$        | 2.1/3.5                 | V     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Maximum Reverse Voltage                       | $V_{RM}$     | 4/4                     | V     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Current Reduction Rate Above 25°C             | $\Delta I_F$ | 0.40/0.33               | mA/°C |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ambient Temperature Range                     |              | -25° ~ +50°             | °C    |

Super Bright Bicolor LED with 2 elements



Amber color is achieved by lighting red and green simultaneously, but is not suitable for Alternating Legends.

## Caps for Super Bright Bicolor LED

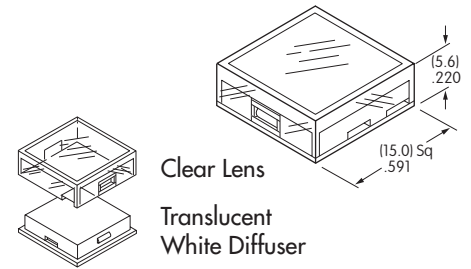
**1JB** AT3074JB Sculptured Clear Lens/White Diffuser



**2B** AT3075B Beveled White Cap



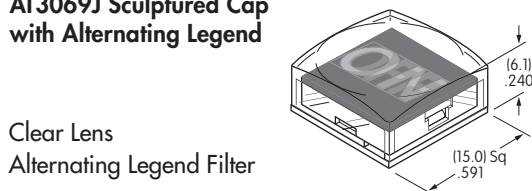
**3JB** AT3076JB Flat Clear Lens/White Diffuser



Material: Polycarbonate Finish: Glossy

## Alternating Legend Caps for Super Bright Bicolor LED

**4J** AT3069J Sculptured Cap with Alternating Legend



**5J** AT3070J Flat Cap with Alternating Legend



Material: Polycarbonate Finish: Glossy

## Standard Alternating Legend Pairs



Cap illumination is alternating green/red; legend text is black.

Contact factory for other Alternating Legends.

Legend illustrations are approximate representations of the actual characters on the filters.

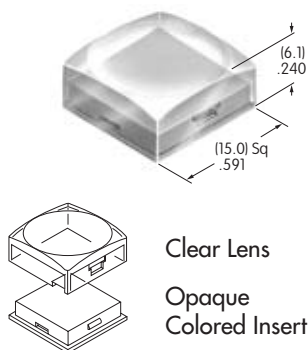
**No Code** No Lamp

## CAP TYPES & COLOR COMBINATIONS FOR NONILLUMINATED

**4** AT3073 Sculptured

Lens/Insert  
Colors Available:

- JA** Clear/Black
- JB** Clear/White
- JC** Clear/Red
- JD** Clear/Amber
- JF** Clear/Green

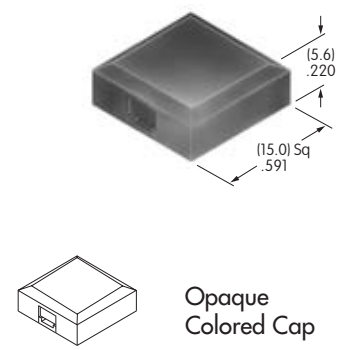


Material: Polycarbonate  
Finish: Glossy

**5** AT3077 Beveled

Cap  
Colors Available:

- A** Black
- B** White
- C** Red
- D** Amber
- F** Green



Material: Polycarbonate  
Finish: Glossy

### TYPICAL SWITCH DIMENSIONS

#### Bright & Super Bright LED Straight PC



**UB215SKG035C-1JC**

Bright Single Color LED

Super Bright Single Color LED

Single Pole

Double Pole

#### Bicolor LED Straight PC



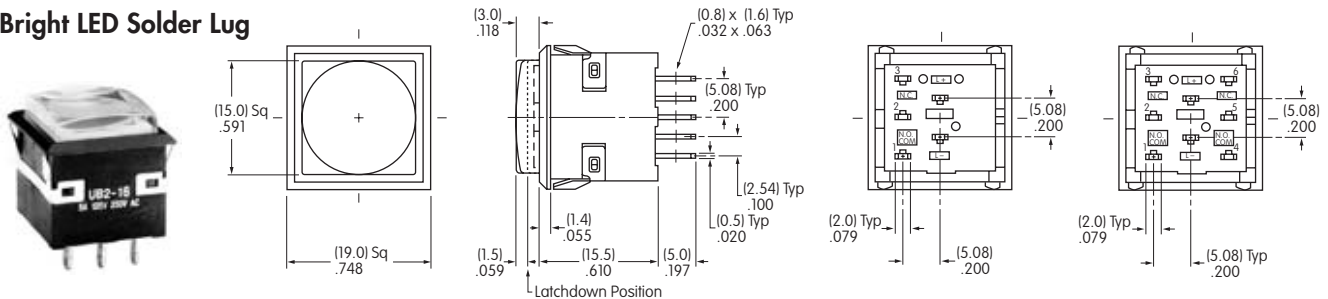
**UB225SKG03CF-1JB**

Bicolor LED Side View

Single Pole

Double Pole

#### Bright LED Solder Lug



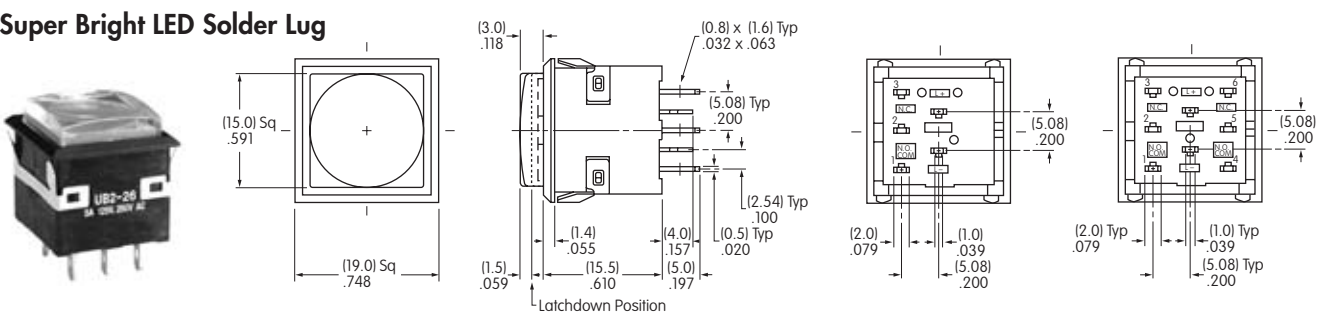
**UB216KKW015F-1JF**

Single Color LED Side View

Single Pole

Double Pole

#### Super Bright LED Solder Lug



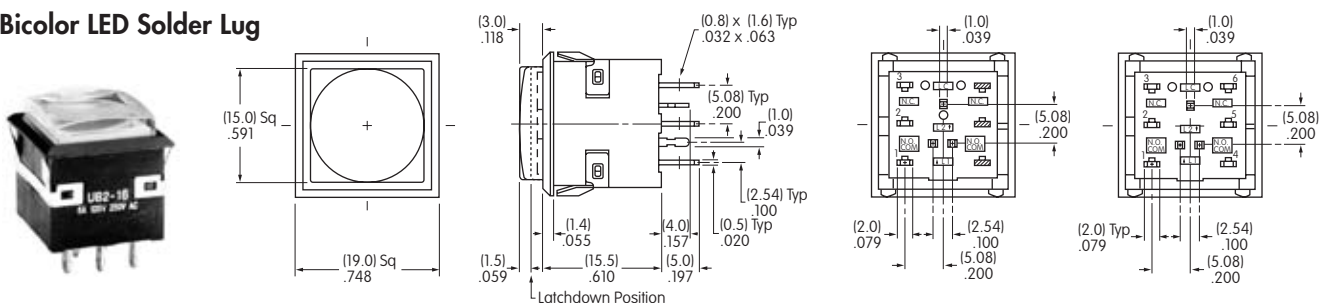
**UB226KKW016F-1JF**

Single Color LED Side View

Single Pole

Double Pole

#### Bicolor LED Solder Lug



**UB216KKW01CF-1JB**

Bicolor LED Side View

Single Pole

Double Pole

## OPTIONAL ACCESSORIES

### Protective Guard for Snap-in Model

#### AT4141

Opens 90°

Closes manually



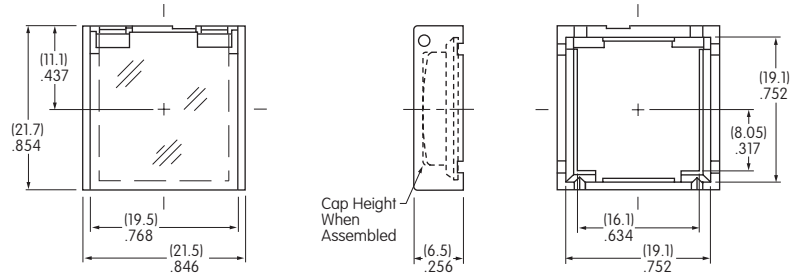
#### Materials:

Cover: Clear Polycarbonate

Base: Black GFR Polyamide

#### Recommended Panel Thickness:

.039" ~ .106" (1.0mm ~ 2.7mm)



### Spring Loaded Protective Guard for Snap-in Mounting of PCB Model

#### AT4170

Opens 180°

Closes automatically

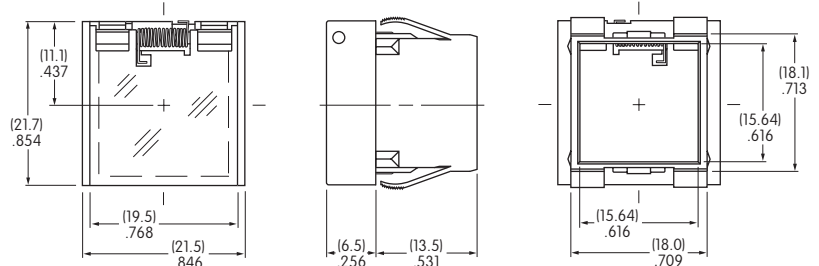


#### Materials:

Cover: Clear Polycarbonate

Base: Black Polyamide

Coil Spring: Stainless Steel



#### Recommended Panel Thickness:

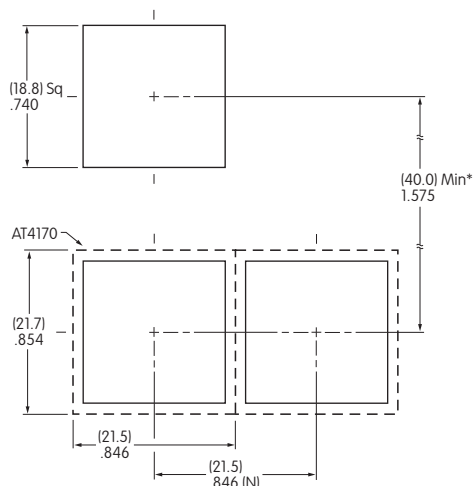
.039" ~ .126"

(1.0mm ~ 3.2mm)

#### Recommended Panel-to-PCB Range:

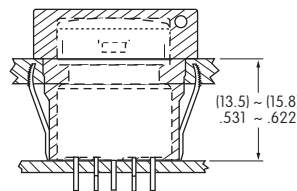
.531" ~ .622"

(13.5mm ~ 15.8mm)



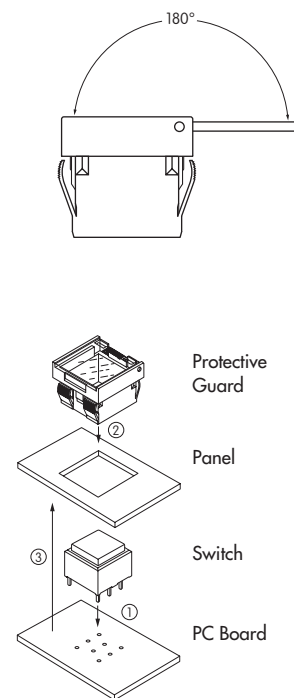
(N) = Number of switches

\* Minimum dimension allows opening of cover to 180°



#### Installation

- 1 Install switch onto PC board.
- 2 Snap protective guard into panel.
- 3 Join the two assemblies.



### OPTIONAL ACCESSORIES

#### Spring Loaded Protective Guard for Snap-in Model

##### AT4142

Opens 180°  
Closes automatically

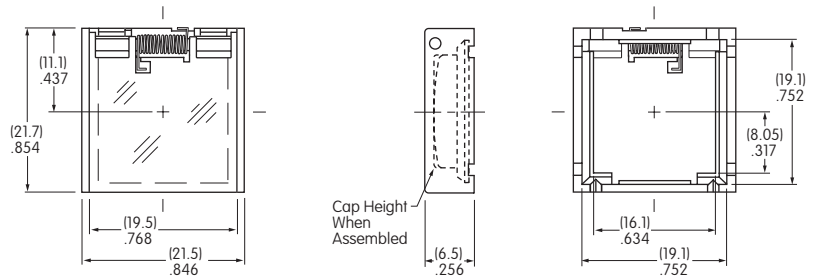


##### Materials:

Cover: Clear Polycarbonate  
Base: Black GFR Polyamide  
Coil Spring: Stainless Steel

##### Recommended Panel Thickness:

.039" ~ .106" (1.0mm ~ 2.7mm)



#### Dust Cover

AT4145 Not for use with barriers.

##### Materials:

Lid: Clear PVC  
Operating temperature range:  
0°C ~ +70°C (32°F ~ 158°C).  
Gasket: Polyethylene



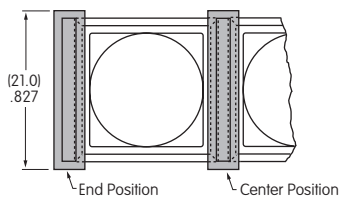
##### Recommended Panel Thickness

.039" ~ .098" (1.0mm ~ 2.5mm)

#### Barriers for Snap-in Mount

##### AT4143 End

##### AT4144 Center



Cutouts for more than 1 Switch:

A = .799" (20.3mm) x Number of Switches +  
.051" (1.3mm)

Material: Polyamide

LEGENDS

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

Suggested Printable Area for UB2 Lens, Film Insert or Diffuser

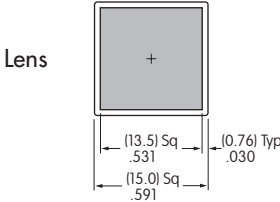
Recommended Methods: Laser Etch on clear lens, Screen Print or Pad Print on lens;  
Laser Print on film insert.

Shaded areas are printable areas.

Beveled Cap



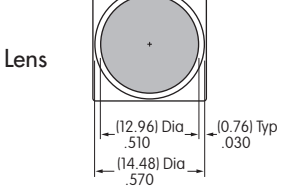
Flat Cap



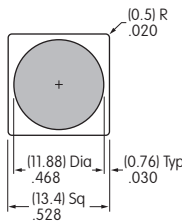
Film Insert or Diffuser



Sculptured Cap



Film Insert or Diffuser



Film Insert: Clear Polyester 4 mil maximum thickness

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## NKK Switches:

[UB215KKW016B-1JB-RO](#) [UB215KKW016G-1JB-RO](#) [UB216KKW016G-1JB-RO](#) [UB215KKW015D-1JD-RO](#)  
[UB215KKW015D-1JB-RO](#) [UB216SKG035C-1JB-RO](#) [UB216SKG035F-1JB-RO](#) [UB226SKG035C-1JB-RO](#)  
[UB226SKG036G-1JB-RO](#) [UB226SKG035F1JB-RO](#) [UB215KKG015C-RO](#) [UB215KKW015C-RO](#) [UB215KKW015D-RO](#)  
[UB215KKW015F-RO](#) [UB215KKW016B-RO](#) [UB215KKW016G-RO](#) [UB215SKG035C-RO](#) [UB215SKG035D-RO](#)  
[UB215SKG035F-RO](#) [UB215SKG036B-RO](#) [UB215SKG036F-RO](#) [UB215SKW035C-RO](#) [UB215SKW035D-RO](#)  
[UB215SKW035F-RO](#) [UB215SKW036F-RO](#) [UB215SKW036G-RO](#) [UB216KKW015C-RO](#) [UB216KKW015F-RO](#)  
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[UB225KKG015D-RO](#) [UB225KKW015D-RO](#) [UB225KKW015F-RO](#) [UB225KKW016B-RO](#) [UB225KKW016F-RO](#)  
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[RO](#) [UB216SKW035F-1JF-RO](#) [UB226SKG035F-1JB-RO](#) [UB225KKW015D-1JD-RO](#) [UB226KKW015D-1JD-RO](#)  
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