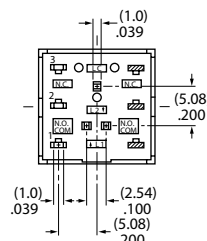
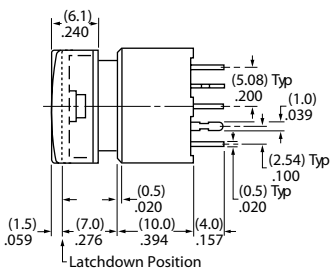
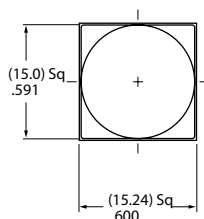


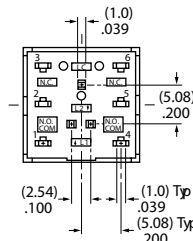
Illuminated Switches

Bicolor illuminated Pushbutton Switches with Alternating Legends

UB2 Series

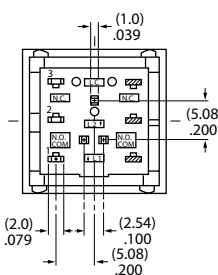
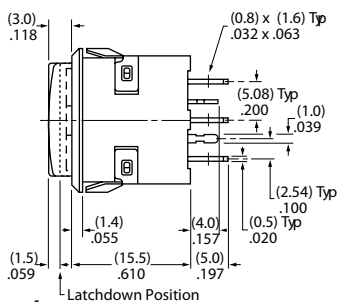
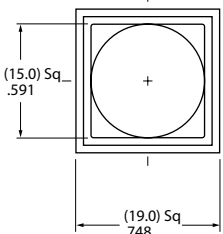


Single Pole

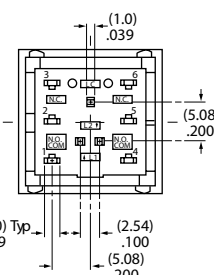


Double Pole

UB225SKW036CF-4J01 Bicolor LED Straight PC



Single Pole

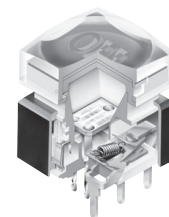


Double Pole

UB216KKW016CF-4J02 Bicolor LED Solder Lug

POLE & CIRCUITS		Plunger Position		Connected Terminals		Throw & Switch/Lamp Schematics
Pole	Model	Normal	Down	Normal	Down	
SP	UB215 UB216*	ON	(ON) ON	1-3	1-2	Notes: Switch is marked with NC, NO, COM, L+ & L-. Lamp circuit is isolated and requires an external power source. SPDT 1 ● COM 3 ● NC 2 ● NO (+) ○ (L) ○ (-)
DP	UB225 UB226*	ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT 1 ● COM 3 ● NC 2 ● NO 4 ● COM 6 ● NC 5 ● NO (+) ○ (L) ○ (-)

CUTAWAY



When in latched position for the alternate circuit, cap positions above the housing are: 1.5mm for snap-in models & 7.0mm for PCB models.

How to order:



- 1** **POLES:**
1 SPDT
2 DPDT
- 2** **CIRCUITS:**
5 ON-(ON)
6 ON-(ON) (Alternate Action with Latchdown)
- 3** **MOUNTING TYPES:**
SK Square (PCB Mounting)
KK Square (Snap-in Mounting, Standard with Solder Lug terminals)
- 4** **CONTACTS & RATINGS:**
W Silver Rated 5A @ 125/250 VAC
G Gold Rated 0.4VA max @ 28V AC/DC max
- 5** **TERMINALS:**
01 Solder Lug (for Snap-in Mounting)
02 Straight PC
- 6** **LED:**
6CF red/green Super Bright Bicolor LED
- 7** **CAP TYPES & COLORS:**
1JB Sculptured Cap: Clear
Diffuser Color: White
Beveled Cap & Color: White
Flat Cap Lens: Clear
Diffuser Color: White
Sculptured Cap with Alternating Legend Filter: Clear Lens
Flat Cap with Alternating Legend Filter: Clear Lens
- 8** **ALTERNATING LEGENDS:**
01 ON/OFF
02 START/STOP
04 OPEN/CLOSE

General Specifications:

ELECTRICAL CAPACITY (Resistive Load)

- » Power Level (code W): 5A@125/250VAC or 5A@30VDC
- » Logic Level (code G): 0.4VA max.@28V AC/DC max. (Applicable Range 0.1mA-0.1A@20mV-28V)

OTHER RATINGS:

- » Contact Resistance: 50mΩ max. for silver; 100mΩ max. for gold
- » Insulation Resistance: 200MΩ min.@500VDC
- » Mechanical Life: 1,000,000 operations min. for momentary; 200,000 operations for alternate action
- » Electrical Life: 10,000 operations min. for silver; 200,000 operations min. for gold
- » Normal Operating Force: SP: 1.90N; DP: 2.55N
- » Contact Timing: Break-before-make
- » Travel: Pretravel: 1.7mm; Overtravel: 0.6mm; Total: 2.3mm

MATERIALS

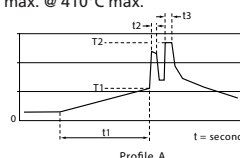
- » Movable Contacts & Stationary Contacts: Silver alloy or copper with gold plating
- » Switch Terminals: Phosphor bronze with silver or gold plating
- » Lamp Terminals: Brass with silver plating

ENVIRONMENTAL DATA

- » Operating Temperature: -25°C through +50°C

SOLDERING

- » Manual Soldering: 4 seconds max. @ 410°C max.
- » Wave Soldering (PC version): See Profile:



Depending on the material and thickness of the PCB, surface temperatures may vary. If the process exceeds the wave soldering limits in this graph, contact us for further information.



LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C. Amber can be achieved by simultaneous illumination of red & green, but is not suitable for Alternating Legends.		Bicolor with 2 elements	Super Bright Bicolor Red/Green
Forward Peak Current	I_{FM}		30/25(25/22 for Amber) mA
Continuous Forward Current	I_F		20/20 mA
Forward Voltage	V_F		2.1/3.5 V
Reverse Peak Voltage	V_{RM}		4/4 V
Current Reduction Rate Above 25°C	ΔI_F		0.40/0.33 mA/°C
Ambient Temperature Range			-25°C ~ +50°C

Illuminated Switches

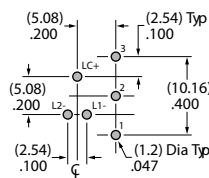
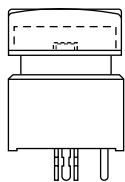
Bicolor illuminated Pushbutton Switches with Alternating Legends

UB2 Series

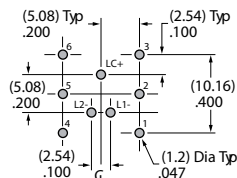
MOUNTING TYPES & SHAPES

SK PCB Mounting, Square Shape

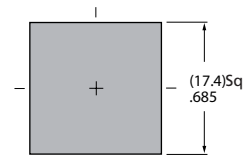
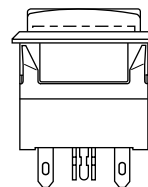
SP, Bicolor LED



DP, Bicolor LED



KK Snap-in Mounting (Solder Lug), Square Shape with Built-in Bezel

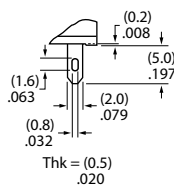


Panel Thickness: 1.0 ~ 3.2 mm

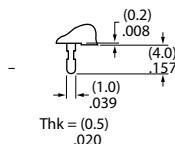
SWITCH & LAMP TERMINALS

01 Solder Lug

For Switch

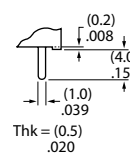


For Super Bright Bicolor LED

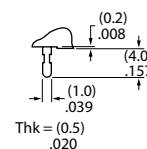


03 Straight PC

For Switch



For Super Bright Bicolor LED

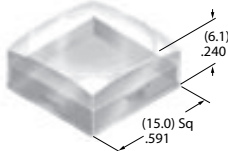


The 0.8mm x 1.6mm oblong terminal hole accommodates 2 solid or stranded 24-gauge wires.

CAP TYPES & COLOR COMBINATIONS

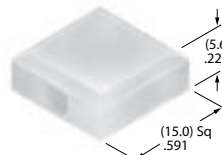
1JB AT3074 Sculptured

Clear Lens
Translucent White Diffuser



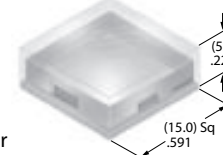
2B AT3075 Beveled

Translucent White Cap



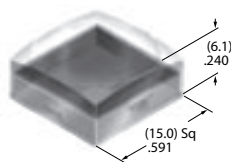
3JB AT3076 Flat

Clear Lens
Translucent White Diffuser



4J AT3069 Sculptured with Alternating Legend Filter

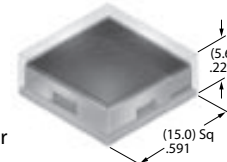
Clear Lens
Alternating Legend Filter
Translucent White Diffuser



Lens & Diffuser Material: Polycarbonate
Filter Material: Polycarbonate

5J AT3070 Flat with Alternating Legend Filter

Clear Lens
Alternating Legend Filter
Translucent White Diffuser

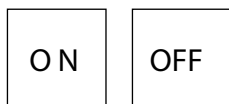


Lens Finish: Glossy

STANDARD ALTERNATING LEGENDS FOR SCULPTURED OR FLAT CAPS

01

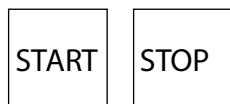
Green Red



Alternating Legend: ON/OFF

02

Green Red



Alternating Legend: START/STOP

04

Green Red



Alternating Legend: OPEN/CLOSE

Contact us for other Alternating Legends. Legend illustrations are approximate representations of the actual characters on the filters.

