Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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)
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 circuit
200,000 operations minimum for maintained circuit
Electrical Life: 100,000 operations minimum
Nominal Operating Force: 4.41N
Contact Timing: Nonshorting (break-before-make)
Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

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

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
Note: When used with a polyvinyl chloride splash cover, the lowest limit is 0°C (32°F)
Humidity: 90 ~ 95% humidity for 96 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^2) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing: Not available for snap-in; see next section for panel seal.

Installation

Cap Installation Force: 3.92N maximum downward force on cap
Quick Connect Force: 52.95N maximum downward force on connector
Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards: UL94V-0 housing & base
UL: **File No. E44145 - Recognized only when ordered with marking on switch.**
Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.
All models recognized at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.
CSA: **File No. 023535_0_000 - Certified only when ordered with marking on switch.**
Add "/C" before first dash in part number to order CSA certified switch.
All models certified at 3A @ 125V or 250V AC or 0.4VA @ 28V AC/DC maximum.

NKK SWITCHES

Distinctive Characteristics

Carefully designed light diffusion and filtering system produces bright, full surface illumination with front panel relamping.

Spot illumination available in single and bicolor LEDs.

Choice of super bright LEDs in white, green, and blue in addition to standard or bright red, amber, and green LEDs.

Stainless steel clips provide secure mounting with a wide range of panel thicknesses.

Latchdown feature gives indication of circuit status. Audible and tactile feedback with smooth and responsive operation.

Snap-action contact mechanism gives long electrical life and sensitivity of actuation.

Combination solder lug and .110" quick connect terminals are epoxy sealed to prevent entry of flux, dust, and other contaminants.

Panel sealed model meets IP65 of IEC60529 specifications (similar to NEMA 4 & 13).

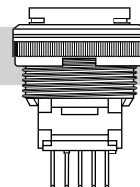Compact switch design minimizes behind panel depth.
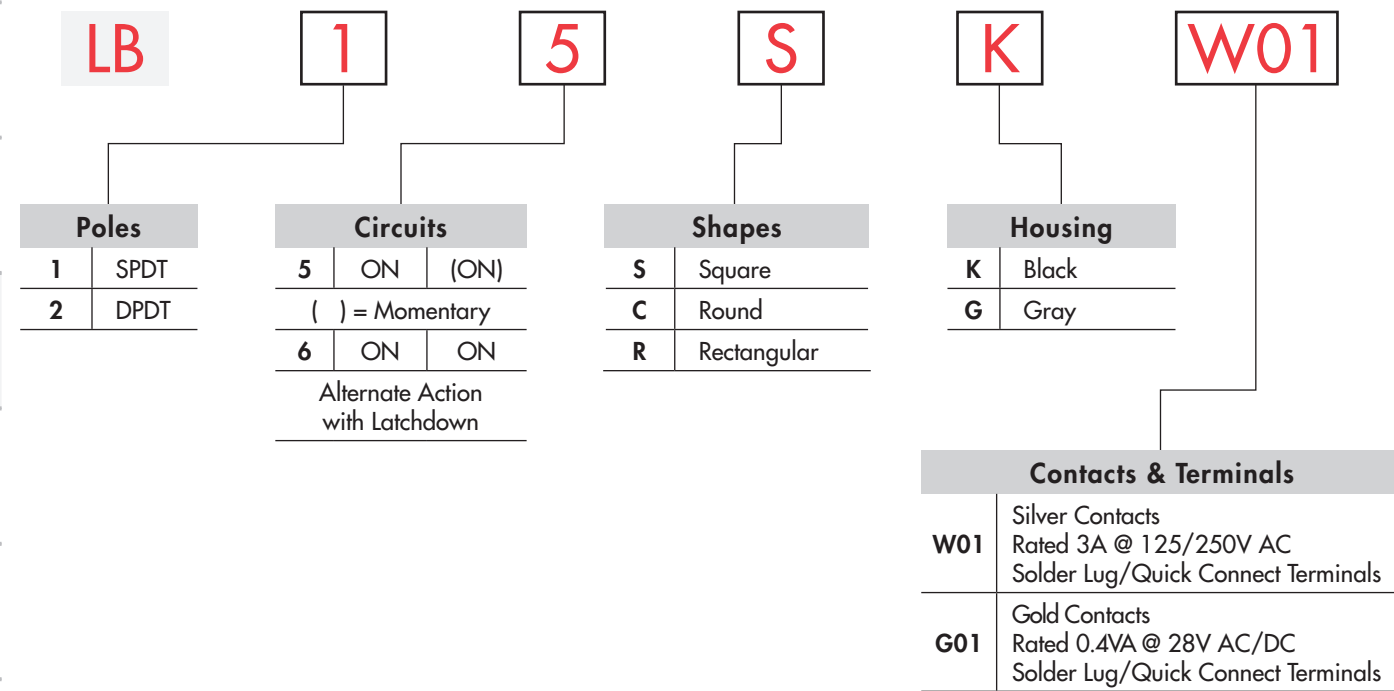
Matching indicators available.
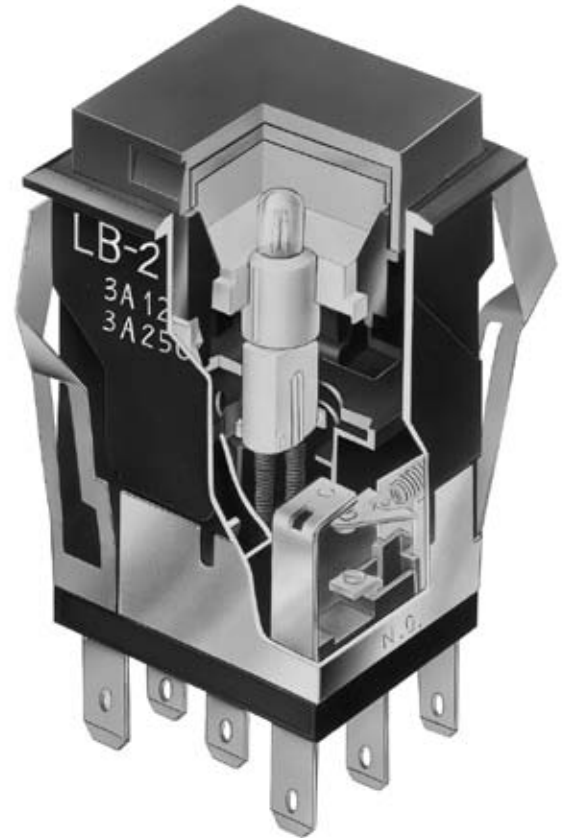
Actual Size
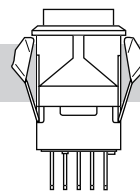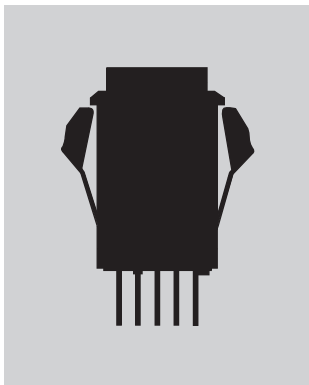
Snap-in Mount   Page D46

Panel Seal   Page D57

Toggles

Rockers

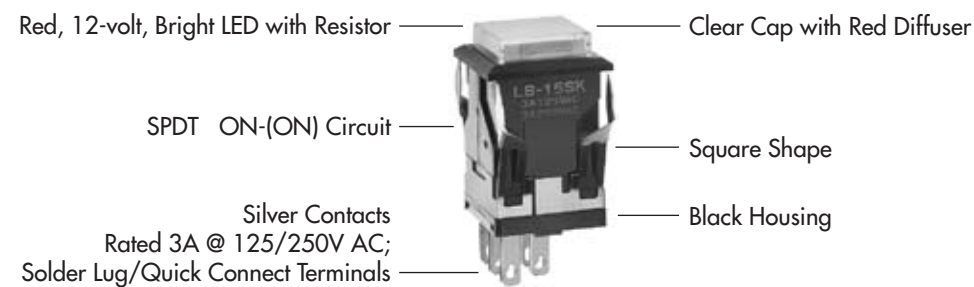Pushbuttons

D   Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

TYPICAL SWITCH

LB	1	5	S	K	W01

Poles
1	SPDT
2	DPDT

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

Shapes
S	Square
C	Round
R	Rectangular

Housing
K	Black
G	Gray

Contacts & Terminals
W01	Silver Contacts Rated 3A @ 125/250V AC Solder Lug/Quick Connect Terminals
G01	Gold Contacts Rated 0.4VA @ 28V AC/DC Solder Lug/Quick Connect Terminals

IMPORTANT:

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

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LB15SKW01-5C12-JC

Red, 12-volt, Bright LED with Resistor — Clear Cap with Red Diffuser

SPDT ON-(ON) Circuit — Square Shape

Silver Contacts Rated 3A @ 125/250V AC; Solder Lug/Quick Connect Terminals — Black Housing

ORDERING EXAMPLE

—	5C 12	—	JC

Lamps

Incandescent Lamp Used with Solid Cap
05	5-volt
12	12-volt
No Code	Nonilluminated

Incandescent or Neon Used with Insert Cap
01	110-volt Neon
05	5-volt Incandescent
12	12-volt Incandescent
No Code	Nonilluminated

Bright LED Used with LED Cap
Colors		Resistor	
5C	Red	No Code	No Resistor
5D	Amber	05	5-volt
5F	Green	12	12-volt
		24	24-volt

Super Bright LED Used with LED Cap
6B	White
6F	Green
6G	Blue

LED in Spot Illuminated Cap
1C	Red Single Color
1D	Amber Single Color
1F	Green Single Color
CF	Red/Green Bicolor

Nonilluminated
No Code	Nonilluminated

Cap Types & Colors

Solid Cap: Lens/Filter Colors
BJ	White/Clear
CJ	Red/Clear
EJ	Yellow/Clear
FJ	Green/Clear
GJ	Blue/Clear

Insert Cap: Lens/Filter Colors
JB	Clear/White
JC	Clear/Red
JE	Clear/Yellow
*JF	Clear/Green
*JG	Clear/Blue

*JF & JG not suitable with neon.

LED Cap: Lens/Diffuser Colors
JB	Clear/White
JC	Clear/Red
JD	Clear/Amber
JF	Clear/Green

LED Cap: Lens/Diffuser Colors
JB	Clear/White

Spot Illuminated Cap Colors
A	Black	
B	White	Available in Square and Round only.
C	Red	
F	Green	

Nonilluminated Cap Colors
A	Black	F	Green
B	White	G	Blue
C	Red	H	Gray
E	Yellow		

NKK SWITCHES

POLES & CIRCUITS

Pole	Model	Plunger Position ( ) = Momentary Normal	Down	Connected Terminals Normal	Down	Throw & Switch/Lamp Schematics
						Notes: Switch is marked with NC, NO, COM, L+, L–. Lamp circuit is isolated and requires an external power source.
SP	LB15 *LB16	ON ON	(ON) ON	1-3	1-2	SPDT
DP	LB25 *LB26	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT

SPDT schematic: 1 COM, 3 NC, 2 NO; L (+) ——○—— (-) L

DPDT schematic: 1 COM, 4 COM, 3 NC, 2 NO, 6 NC, 5 NO; L (+) ——○—— (-) L

* When in latchdown position for the alternate circuit, cap position is .039" (1.0mm) above the built-in bezel.

SHAPES & PANEL CUTOUTS

S .622" (15.8mm) Square

(16.2) Sq .638
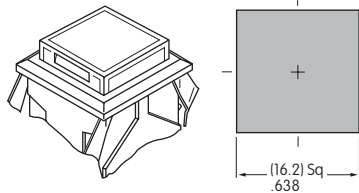
Cutout for 1 switch:
.638" x .638" (16.2mm x 16.2mm)
Cutout for 1 switch with barriers:
.638" x .815" (16.2mm x 20.7mm)

C .854" (21.7mm) Round

(22.0) Dia .866
(11.5) .453
(1.5) R .059
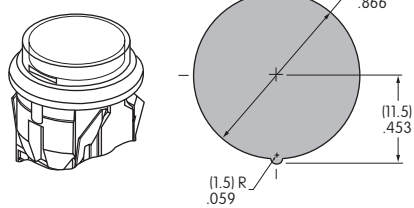
R .622" x .866" (15.8mm x 22.0mm) Rectangular

(16.2) .638
(22.4) .882
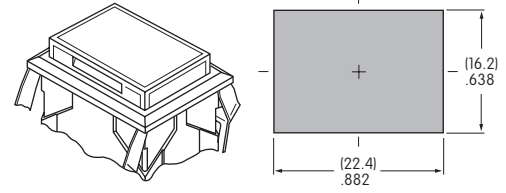
Cutout for 1 switch:
.638" x .882" (16.2mm x 22.4mm)
Cutout for 1 switch with barriers:
.638" x 1.059" (16.2mm x 26.9mm)

Panel Thickness for Switches & Barriers: .039" ~ .157" (1.0 ~ 4.0mm)
Panel Thickness for Protective Guards & Splash Covers: .039" ~ .138" (1.0 ~ 3.5mm)

HOUSING

Housing Colors Available: **K** Black   **G** Gray

CONTACT MATERIALS, RATINGS & TERMINALS

W01 Silver Contacts
Power Level
3A @ 125V AC & 250V AC

G01 Gold Contacts
Logic Level
0.4VA max. @ 28V AC/DC max.

Complete explanation of operating range in Supplement section.

Solder Lug/Quick Connect

Optional PCB adaptors AT711 & AT712 available; illustrated in "Optional Accessories" immediately following "Typical Switch Dimensions."

Epoxy Seal
(7.5) .295
(2.0) .079
(2.8) .110
(1.2) .047
Thk = (0.5) .020

INCANDESCENT & NEON LAMP CODES & SPECIFICATIONS

AT607 & AT607N

T-1 Bi-pin

AT607 Incandescent 5-volt or 12-volt; AT607N Neon 110-volt

		05	12	01 *
Voltage	V	5V AC	12V AC	110V AC
Current	I	115mA	60mA	1.5mA
Endurance	Avg. Hours	10,000		10,000
Ambient Temp. Range		−25°C ~ +50°C		

The electrical specifications shown are determined at a basic temperature of 25°C. Lamp circuit is isolated and requires external power source.

* Recommended Resistors for Neon:
33K ohms for 110V AC;
100K ohms for 220V AC
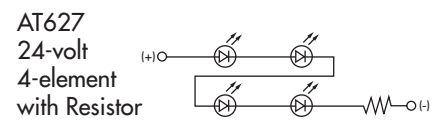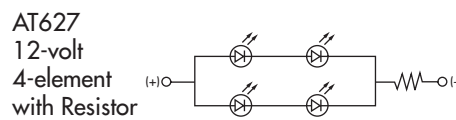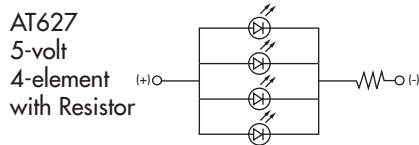
LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C.
LED circuit is isolated and requires external power source. Polarity marks are on 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.
Additional lamp detail is shown in the Accessories & Hardware section.

Bright LED without Resistor

AT635

LEDs are colored
in OFF state.

T-1½ Bi-pin

(+)○—▷|—○(-)

		Red	Amber	Green	No Code	No Resistor	
Color Codes		5C	5D	5F	Red	Amber	Green
Maximum Forward Current	I_{FM}				30mA	30mA	30mA
Typical Forward Current	I_F				20mA	20mA	20mA
Forward Voltage	V_F				1.9V	2.0V	2.1V
Maximum Reverse Voltage	V_{RM}				5V	5V	5V
Current Reduction Rate Above 25°C	ΔI_F				0.42mA/°C		
Ambient Temperature Range					−25° ~ +50°C		

Bright LED with Resistor

**AT627
with Resistor**

T-1 Bi-pin

		Red	Amber	Green	Resistor Codes		
Color Codes:		5C	5D	5F	05	12	24
Maximum Forward Current	I_{FM}				—	—	—
Typical Forward Current	I_F				52mA	26mA	13mA
Forward Voltage	V_F				5V	12V	24V
Maximum Reverse Voltage	V_{RM}				4V	8V	16V
Current Reduction Rate Above 25°C	ΔI_F				0.50mA/°C		
Ambient Temperature Range					−25° ~ +50°C		

AT627
5-volt
4-element
with Resistor

AT627
12-volt
4-element
with Resistor

AT627
24-volt
4-element
with Resistor

Super Bright Single Element LED

**AT625G Blue
AT631B White
AT632F Green**

T-1 Bi-pin

(+)○—▷|—○(-)

		ATTENTION ELECTROSTATIC SENSITIVE DEVICES	6B	6F	6G
	Color		White	Green	Blue
Maximum Forward Current	I_{FM}		30mA	35mA	30mA
Typical Forward Current	I_F		20mA	20mA	20mA
Forward Voltage	V_F		3.6V	3.2V	3.2V
Maximum Reverse Voltage	V_{RM}		5V	5V	5V
Current Reduction Rate Above 25°C	ΔI_F		0.50mA/°C	0.59mA/°C	0.50mA/°C
Ambient Temperature Range			−25° ~ +50°C		

No Code   **No Lamp**

nkk SWITCHES

Toggles

Rockers

Pushbuttons

D   Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

Toggles

Rockers

Pushbuttons

Illuminated PB **D**

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

CAP TYPES & COLOR COMBINATIONS

Color Codes: **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **J** Clear

Solid Cap for Incandescent Lamp & Nonilluminated

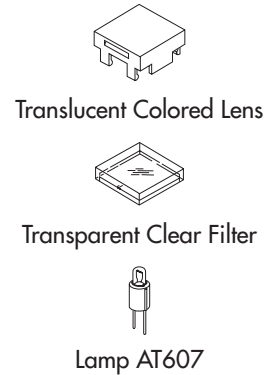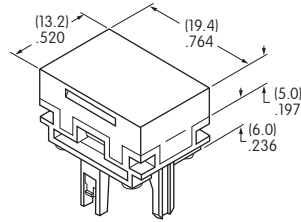**Lens/Filter Colors Available:**

BJ	FJ
CJ	GJ
EJ	

AT476 Square
(13.2) Sq .520 (3.5) .138 (6.5) .256

AT4012 Round
(19.0) Dia .748 (4.5) .177 (5.5) .217

AT4026 Rectangular
(13.2) .520 (19.4) .764 (5.0) .197 (6.0) .236

Translucent Colored Lens

Transparent Clear Filter

Lamp AT607
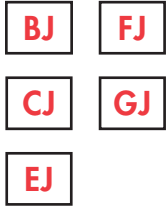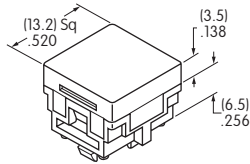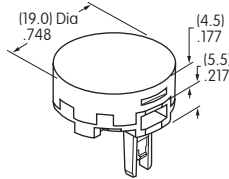
Material: Polycarbonate   Finish: Glossy

Insert Cap for Incandescent or Neon Lamp & Nonilluminated

Lens/Filter Colors Available:

JB	JF
JC	JG
JE	
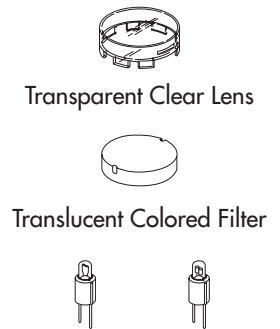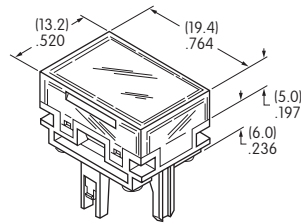
JF and JG not suitable with neon lamp.

AT477 Square
(13.2) Sq .520 (3.5) .138 (6.5) .256

AT4013 Round
(19.0) Dia .748 (4.5) .177 (5.5) .217

AT4027 Rectangular
(13.2) .520 (19.4) .764 (5.0) .197 (6.0) .236

Transparent Clear Lens

Translucent Colored Filter

Lamp AT607 or 607N

Material: Polycarbonate   Finish: Glossy

Cap for Bright LED without Resistor

Lens/Diffuser Colors Available:
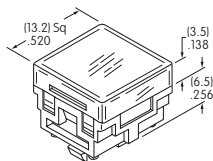
| JB |
| JC |
| JD |
| JF |

AT4176 Square
(13.2) Sq .520 (3.5) .138 (6.5) .256

AT4178 Round
(19.0) Dia .748 (4.5) .177 (5.5) .217

AT4177 Rectangular
(13.2) .520 (19.4) .764 (5.0) .197 (6.0) .236

Transparent Clear Lens

Translucent Colored Diffuser

Bright LED AT635
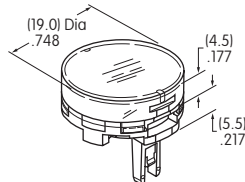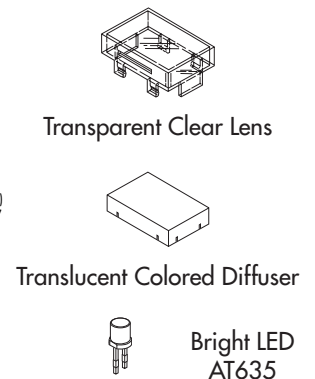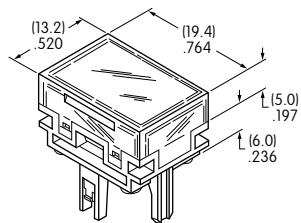
Material: Polycarbonate   Finish: Glossy

Cap for Bright LED with Resistor

Lens/Diffuser Colors Available:

| JB |
| JC |
| JD |
| JF |

AT4162 Square
(13.2) Sq .520 (3.5) .138 (6.5) .256

AT4164 Round
(19.0) Dia .748 (4.5) .177 (5.5) .217

AT4163 Rectangular
(13.2) .520 (19.4) .764 (5.0) .197 (6.0) .236

Transparent Clear Lens

Translucent Colored Diffuser

Bright LED AT627

Material: Polycarbonate   Finish: Glossy

NKK SWITCHES

CAP TYPES & COLOR COMBINATIONS

Color Codes: **A** Black **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **H** Gray **J** Clear

Cap for Super Bright LEDs

JB Clear Lens / White Diffuser

Material: Polycarbonate
Finish: Glossy

AT4129 Square
(13.2) Sq .520
(3.5) .138
(6.5) .256

AT4128 Round
(19.0) Dia .748
(4.5) .177
(5.5) .217

AT4130 Rectangular
(13.2) .520
(19.4) .764
(5.0) .197
(6.0) .236
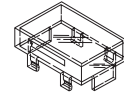
Transparent Clear Lens
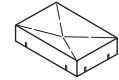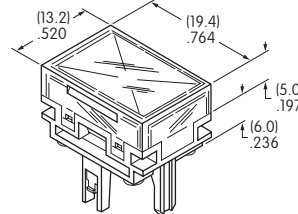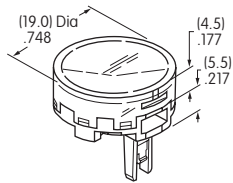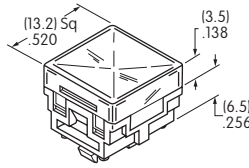
Translucent White Diffuser

LEDs AT625 AT631 AT632

Spot Illuminated Cap with LED

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires an external power source. Single color LEDs are colored in OFF state; bicolor LEDs are translucent white in OFF state. Polarity marks are on 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. Additional lamp detail is shown in the Accessories & Hardware section.

LED Specifications

LED factory assembled in Spot Illuminated Caps **Not Available Separately**	Single Color LED with 1 Element	Bicolor LED with 2 Elements		Single Color			Bicolor
				1C Red	**1D** Amber	**1F** Green	**CF** Red/Green
Maximum Forward Current			I_{FM}	25mA	30mA	25mA	30/25mA
Typical Forward Current			I_F	20mA	20mA	20mA	20mA
Forward Voltage			V_F	2.25V	2.1V	2.2V	2.0/2.2V
Maximum Reverse Voltage			V_{RM}	5V	5V	5V	—
Current Reduction Rate Above 25°C			ΔI_F	0.33mA/°C	0.40mA/°C	0.33mA/°C	0.43/0.38mA/°C
Ambient Temperature Range				−25° ~ +70°C			

Cap Colors Available:

A C
B F
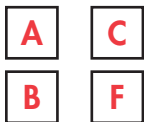
Material: Polycarbonate
Finish: Glossy

AT480 Square
(13.2) Sq .520
(4.0) .157
(2.0) .079
(5.0) .197
(3.5) .138
(6.5) .256

AT4016 Round
(19.0) Dia .748
(5.0) .197
(4.5) .177
(5.5) .217
(2.0) .079
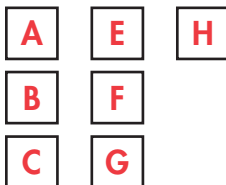(6.0) .236
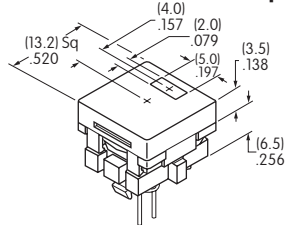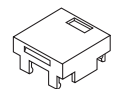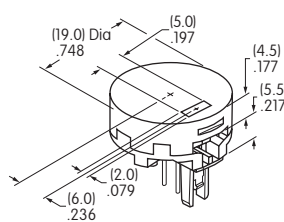
Cap with Window
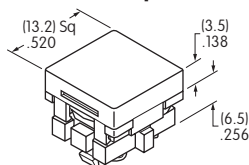
Factory Assembled LED; Not Available Separately

When ordering spot illuminated cap separately, LED color must be specified.
Examples: AT480CA (red LED, black cap); AT4016CFB (red/green bicolored LED, white cap)
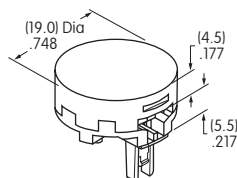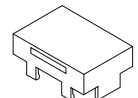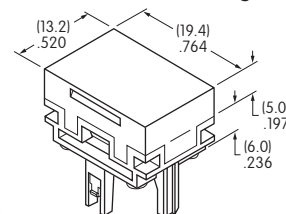
Cap for Nonilluminated

Cap Colors Available:

A E H
B F
C G

AT484 Square
(13.2) Sq .520
(3.5) .138
(6.5) .256

AT4017 Round
(19.0) Dia .748
(4.5) .177
(5.5) .217

AT4030 Rectangular
(13.2) .520
(19.4) .764
(5.0) .197
(6.0) .236

Cap
No Lamp

Material: Polycarbonate Finish: Glossy

Toggles
Rockers
Pushbuttons
D Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

Toggles
Rockers
Pushbuttons
Illuminated PB **D**
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

TYPICAL SWITCH DIMENSIONS

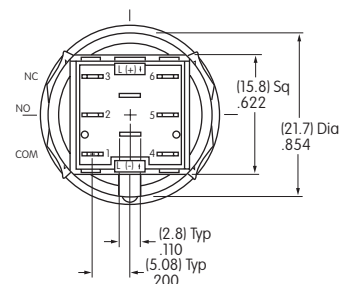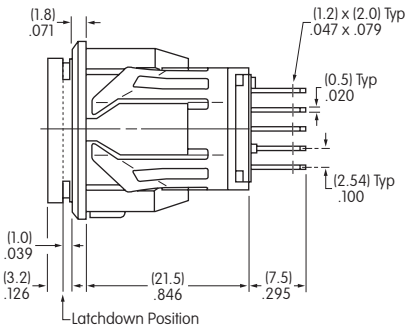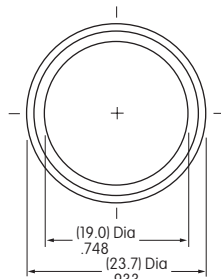### Square
Single & Double Pole
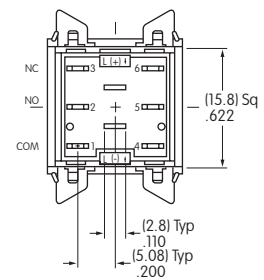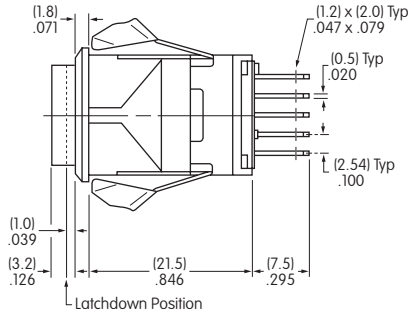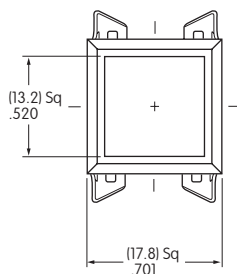
LB15SKW01-12-CJ

Single pole models do not have terminals 4, 5, & 6.
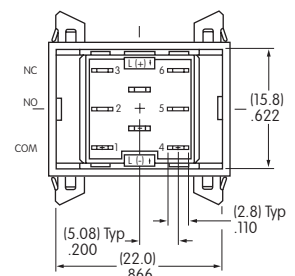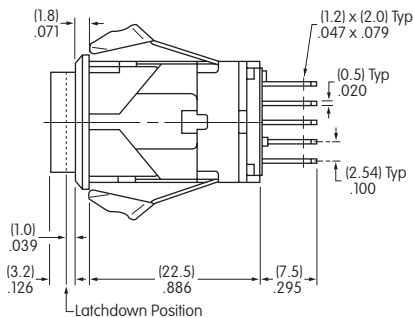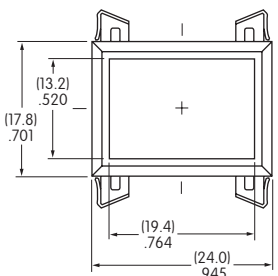
Round
Single & Double Pole

LB16CKW01-12-CJ

Single pole models do not have terminals 4, 5, & 6.

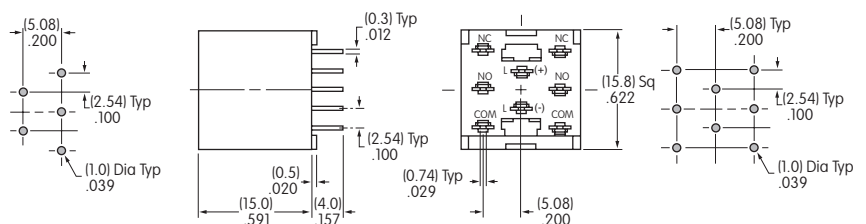### Rectangular
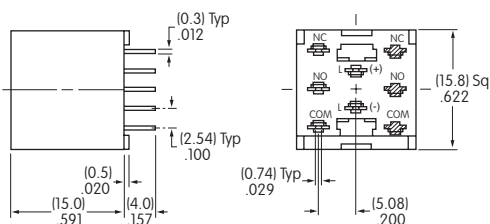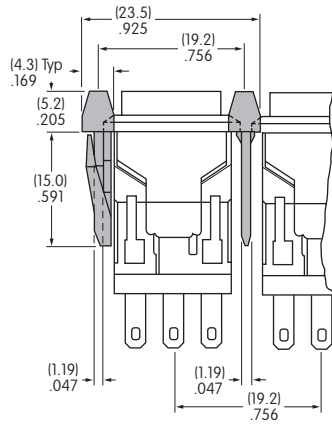### Single & Double Pole

LB26RGW01-12-CJ

Single pole models do not have terminals 4, 5, & 6.

OPTIONAL ACCESSORIES

PCB Adaptors

AT711 Single Pole • Straight PC Terminals

AT712 Double Pole • Straight PC Terminals

Note: Order adaptors separately.

OPTIONAL ACCESSORIES

Barriers

AT497 End   **AT498 Center**

End Position

(20.0) .787

Center Position

Material: Polyamide

(23.5) .925
(19.2) .756
(4.3) Typ .169
(5.2) .205
(15.0) .591
(1.19) .047
(1.19) .047
(19.2) .756
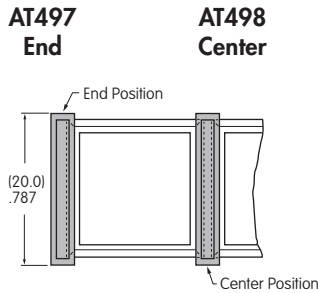
Cutouts for More Than 1 Switch

A
(16.2) .638

<u>Square</u>
A = .752″ (19.1mm) x Number of Switches + .051″ (1.3mm)
<u>Rectangular</u>
A = .996″ (25.3mm) x Number of Switches + .051″ (1.3mm)

Protective Guard

AT499 Square Protective Guard
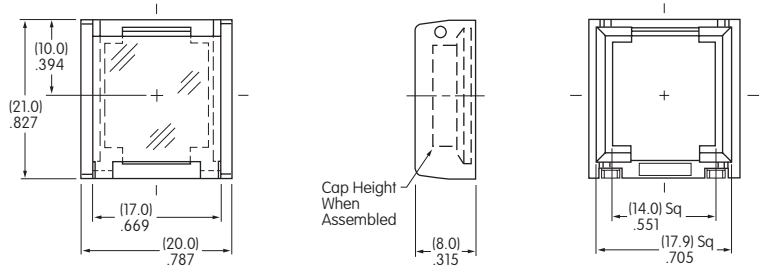
Opens 90°
Closes manually

(10.0) .394
(21.0) .827
(17.0) .669
(20.0) .787

Cap Height When Assembled
(8.0) .315

(14.0) Sq .551
(17.9) Sq .705

Material: Polyamide   Protective Guards reduce depth of switch behind panel by .020″ (0.5mm).

Spring Loaded Protective Guard

AT4171 Square Protective Guard

Opens 180°
Closes automatically

(10.5) .413
(20.5) .807
(18.4) .724
(20.4) .803

Cap Height When Assembled
(7.5) .295

(17.9) .705
(7.1) .280
(14.2) .559
(17.9) .705

(16.2) Sq .638

(39.0) Min* 1.535

AT4171

(10.5) .413
(20.5) .807
(20.4) .803
(20.4) .803 (N)

(N) = Number of switches   * Minimum dimension allows opening of cover to 180°

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

180°

Recommended Panel Thickness:
.039″ ~ .106″ (1.0mm ~ 2.7mm)

Toggles
Rockers
Pushbuttons
Illuminated PB
D
Programmable
Keylocks
Rotaries
Slides
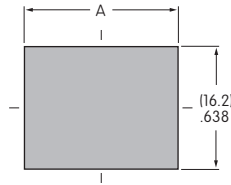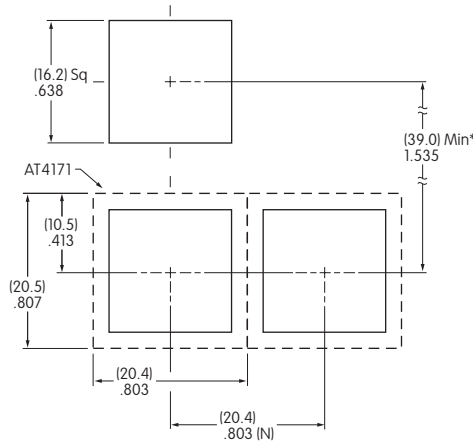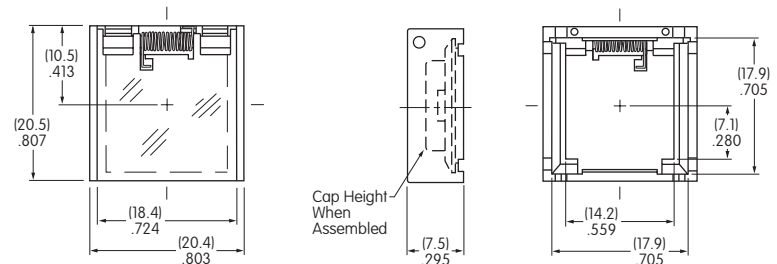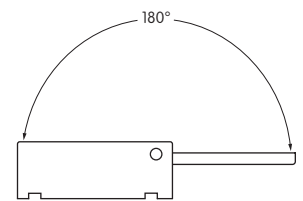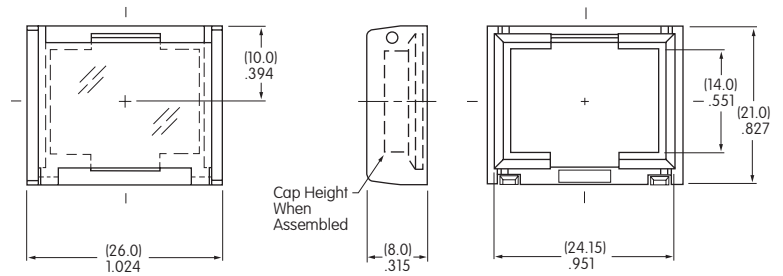Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

Series LB

Standard Size Snap-in Pushbuttons

OPTIONAL ACCESSORIES

Protective Guard

AT4057
Rectangular
Protective Guard

Opens 90°
Closes manually

(10.0) .394 · (14.0) .551 · (21.0) .827

Cap Height When Assembled

(26.0) 1.024 · (8.0) .315 · (24.15) .951
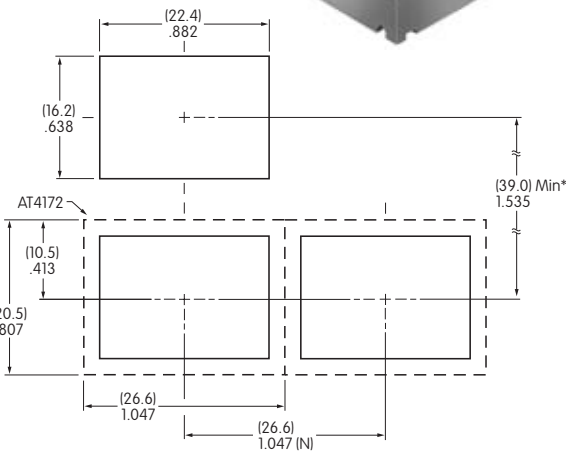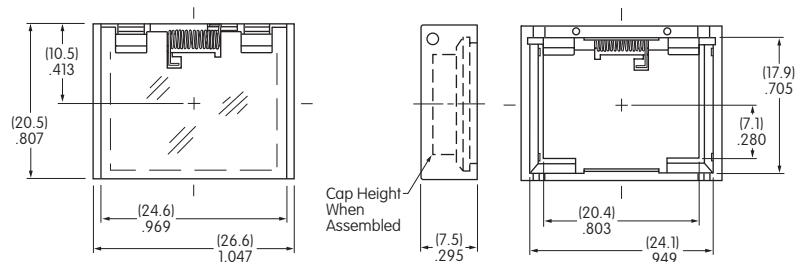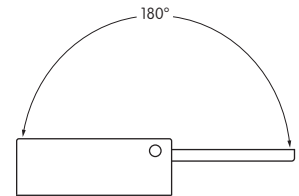
Material: Polyamide   Protective Guards reduce depth of switch behind panel by .020" (0.5mm).

Spring Loaded Protective Guard

AT4172
Rectangular
Protective Guard

(22.4) .882 · (16.2) .638

AT4172

(10.5) .413 · (20.5) .807

(26.6) 1.047 · (26.6) 1.047 (N)

(39.0) Min* 1.535

(N) = Number of switches   * Minimum dimension allows opening of cover to 180°

(10.5) .413 · (20.5) .807 · (24.6) .969 · (26.6) 1.047

Cap Height When Assembled

(17.9) .705 · (7.1) .280 · (20.4) .803 · (24.1) .949 · (7.5) .295

Opens 180°
Closes automatically

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

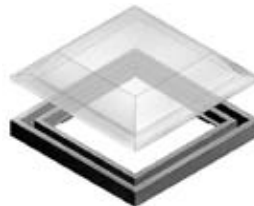Recommended Panel Thickness:
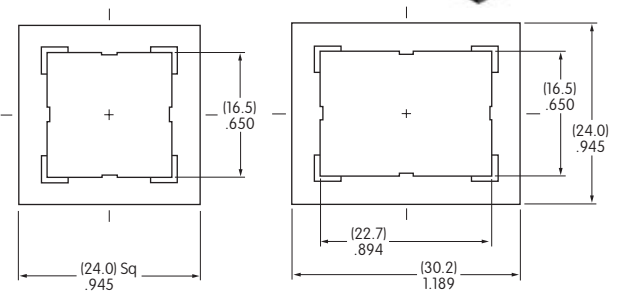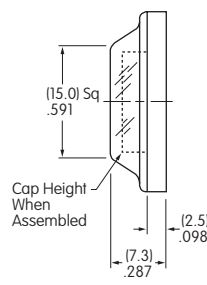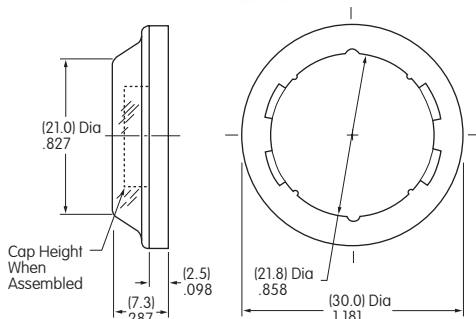.039" ~ .106" (1.0mm ~ 2.7mm)

180°

Dust Covers

AT4002
Round

(21.0) Dia .827

Cap Height When Assembled

(7.3) .287 · (2.5) .098 · (21.8) Dia .858 · (30.0) Dia 1.181

AT4001
Square

(15.0) Sq .591

Cap Height When Assembled

(7.3) .287 · (2.5) .098 · (16.5) .650 · (24.0) Sq .945

AT4011
Rectangular

(16.5) .650 · (24.0) .945 · (22.7) .894 · (30.2) 1.189
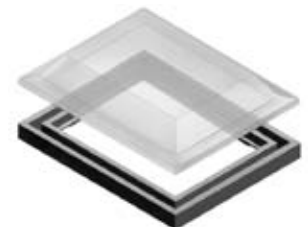
Materials: PVC with polyethylene gasket; PVC loses pliability below 0°C (32°F). Dust Covers reduce depth of switch behind panel by .020" (0.5mm).

Toggles · Rockers · Pushbuttons · Illuminated PB · Programmable · Keylocks · Rotaries · Slides · Tactiles · Tilt · Touch · Indicators · Accessories · Supplement

D

NKK SWITCHES

Toggles
Rockers
Pushbuttons
D Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

ASSEMBLY INSTRUCTIONS

Lamp Installation & LED Orientation
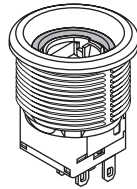
Incandescent & Neon Lamps AT607 & AT607N

Align projections on lamp with grooves (B) in holder when inserting lamp. To correctly join the lamp holder and cap base, match the cut corners (A).
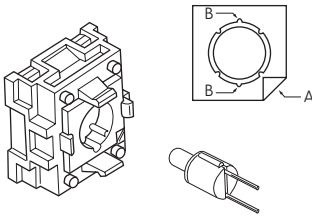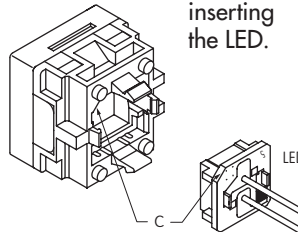
Bright LED AT627

Panel Seal Models

For panel seal models, Bright LED must first be inserted into the lamp socket which is built into the switch. The cap can then be placed on the switch.
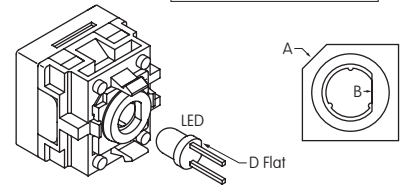
Snap-in Models

For snap-in models, Bright LED must be inserted into the cap first. Align cut corners (C) when inserting the LED.

Bright & Super Bright LEDs AT625, AT631, AT632, AT635

Align D-flat on LED with flat (B) in holder when inserting the LED. To correctly join the lamp holder and cap base, match the cut corners (A).

ATTENTION
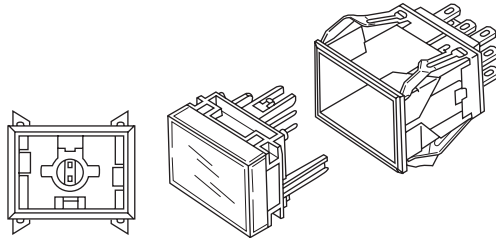ELECTROSTATIC
SENSITIVE DEVICES

Switch & Cap Assembly

Round & Rectangular

Match clip on cap assembly with receptacle inside switch. Lamp terminals will then be aligned correctly with lamp socket.
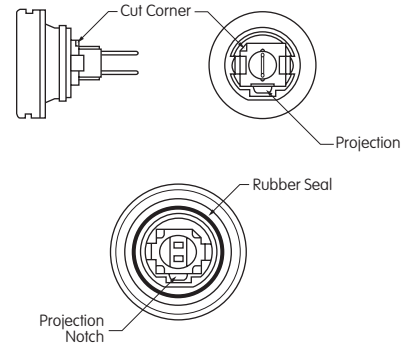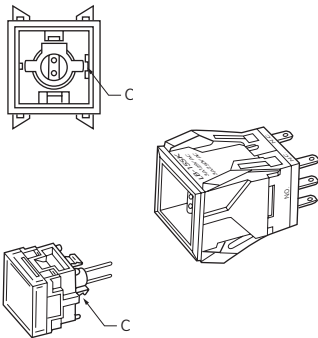
Square

Match projection (C) on cap assembly with groove (C) inside switch. Lamp terminals will then be aligned correctly with lamp socket.
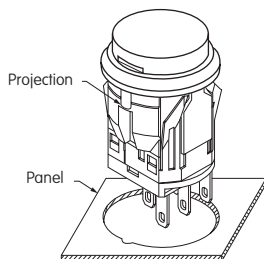
Panel Seal

With Lamps AT607, AT607N, and LEDs AT614, AT625, AT631, AT632: Match projection on cap assembly with notch inside switch. Lamp terminals will then be aligned correctly with lamp socket.

Installation & Maintenance

Snap-in Mount

Snap-in clip holds all switches firmly in place.
To mount round switch, match the antirotation projection on switch with guide cut in panel. Snap into panel cutout.

Panel Seal Bushing Mount

Insert switch from the front of the panel with the o-ring between the built-in bezel and the panel. Install mounting nut AT075 (supplied with switch) from the rear of the panel.
Overtightening mounting nut may damage the switch housing.
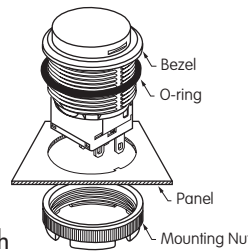
Lamp Replacement

Actuator must be in UP position. Pull off cap with cap extractor AT109.
Replace lamp and reassemble as shown above.

AT109 Cap Extractor

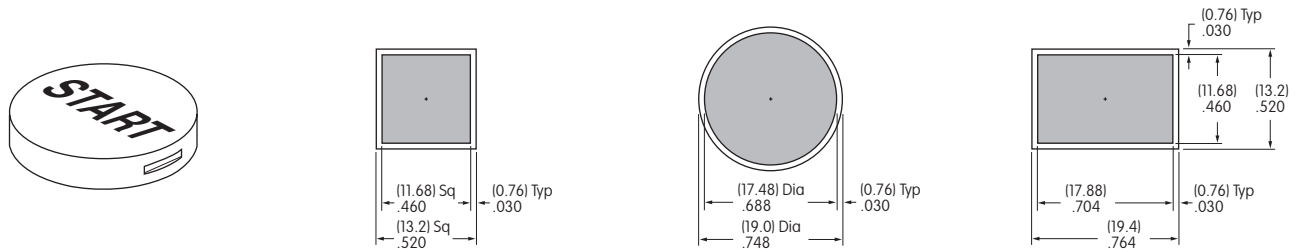**AT112 Socket Wrench**

nkk
SWITCHES

LEGENDS

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

Suggested Printable Area for Lens

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

Epoxy based ink is recommended.

(0.76) Typ
.030

(11.68) (13.2)
.460 .520

(11.68) Sq
.460
(13.2) Sq
.520

(0.76) Typ
.030

(17.48) Dia
.688
(19.0) Dia
.748

(0.76) Typ
.030

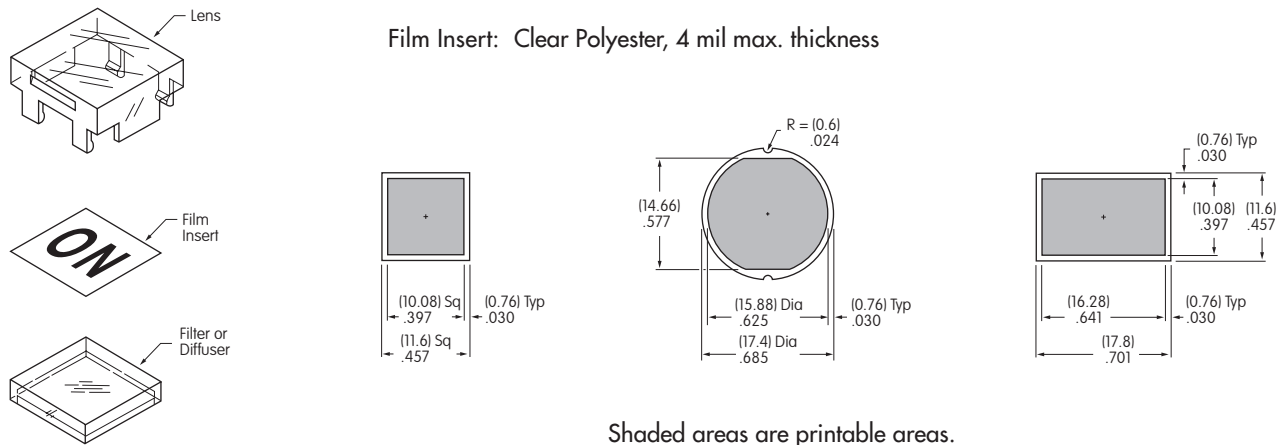(17.88)
.704
(19.4)
.764

(0.76) Typ
.030

Shaded areas are printable areas.

Suggested Printable Area for Film Insert

Recommended Print Method: Laser Print or Screen Print with Epoxy based ink

Film Insert: Clear Polyester, 4 mil max. thickness

Lens

Film
Insert

Filter or
Diffuser

(10.08) Sq
.397
(11.6) Sq
.457

(0.76) Typ
.030

R = (0.6)
.024

(14.66)
.577

(15.88) Dia
.625
(17.4) Dia
.685

(0.76) Typ
.030

(0.76) Typ
.030

(10.08) (11.6)
.397 .457

(16.28)
.641
(17.8)
.701

(0.76) Typ
.030

Shaded areas are printable areas.

Toggles
Rockers
Pushbuttons
D
Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement