# LB Indicators

## Complement to LB Pushbuttons

### TYPICAL INDICATOR ORDERING EXAMPLE

LB 01 G W01 – 5C12 – JC

**Shapes**

| | |
|---|---|
| 01 | Square |
| 02 | Round |
| 03 | Rectangular |

**Housing**

| | |
|---|---|
| K | Black |
| G | Gray |

**Terminals**

| | |
|---|---|
| W01 | Silver Solder Lug/ Quick Connect Terminals |

**Lamps**

**Incandescent Lamp Used with Solid Cap**

| | |
|---|---|
| 05 | 5-volt |
| 12 | 12-volt |

**Incandescent or Neon Used with Insert Cap**

| | |
|---|---|
| 01 | 110-volt Neon |
| 05 | 5-volt Incandescent |
| 12 | 12-volt Incandescent |

**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 |

**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**

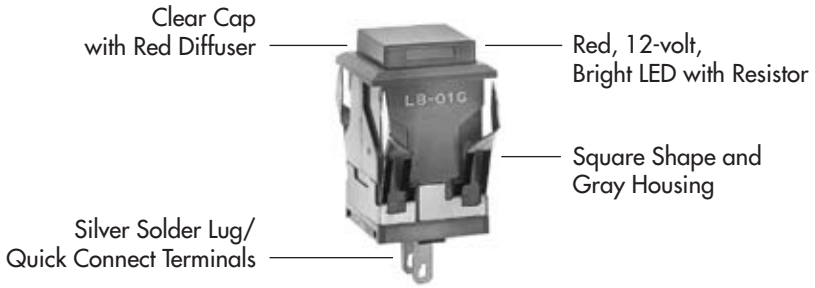
| | |
|---|---|
| JB | Clear/White |
| JC | Clear/Red |
| JD | Clear/Amber |
| JF | Clear/Green |

**LED Cap: Lens/Diffuser Colors**

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

### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

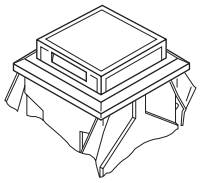
**LB01GW01-5C12-JC**

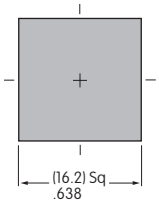


# LB Indicators

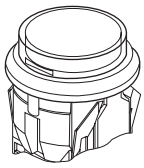
## SHAPES & PANEL CUTOUTS

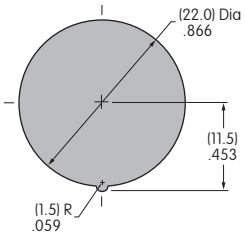
**01** .622″ (15.8mm) Square



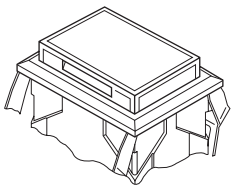


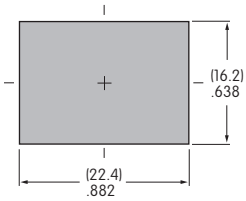

**02** .854″ (21.7mm) Round






**03** .622″ x .866″ (15.8mm x 22.0mm) Rectangular





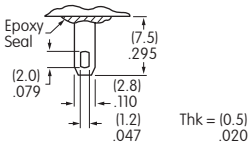

Panel Thickness: .039″ ~ .157″ (1.0 ~ 4.0mm)

## HOUSING

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

## TERMINALS

**W01** **Silver Solder Lug/.110″ (2.8mm) Quick Connect**




## LAMP CODES & SPECIFICATIONS

**Incandescent Lamp for Solid Colored and Colored Insert Caps**

| AT607 | | | 05 | 12 |
|---|---|---|---|---|
| T-1 Bi-pin | Voltage | V | 5V AC | 12V AC |
| | Current | I | 115mA | 60mA |
| | Endurance | Hours | 10,000 average | |
| | Ambient Temp. Range | | −25°C ~ +50°C | |

**Neon Lamp for Colored Insert Cap**

| AT607N | | | 01 |
|---|---|---|---|
| T-1 Bi-pin | Voltage | V | 110V AC |
| | Current | I | 1.5mA |
| | Endurance | Hours | 10,000 average |
| | Ambient Temp. Range | | −25°C ~ +50°C |
| | Recommended Resistors: 33K ohms for 110V AC; 100K ohms for 220V AC | | |

The electrical specifications shown are determined at a basic temperature of 25°C.

# LB Indicators



## LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C. Polarity marks are on the device.
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

| Color Codes | Red 5C | Amber 5D | Green 5F | No Code (No Resistor) 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 | $\Delta I_F$ | | | 0.42mA/°C | 0.42mA/°C | 0.42mA/°C |
| Ambient Temperature Range | | | | −25° ~ +50°C | | |

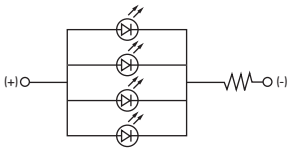
### Bright LED with Resistor

**AT627 with Resistor**

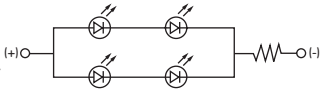
T-1 Bi-pin

| Color Codes: | Red 5C | Amber 5D | Green 5F | Resistor Codes 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 | $\Delta I_F$ | | | 0.50mA/°C | | |
| Ambient Temperature Range | | | | −25° ~ +50°C | | |

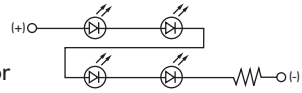
AT627
5-volt
4-element
with Resistor




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

| Color | | 6B White | 6F Green | 6G Blue |
|---|---|---|---|---|
| Maximum Forward Current | $I_{FM}$ | 30mA | 30mA | 30mA |
| Typical Forward Current | $I_F$ | 20mA | 20mA | 20mA |
| Forward Voltage | $V_F$ | 3.6V | 3.3V | 3.3V |
| Maximum Reverse Voltage | $V_{RM}$ | 5V | 7V | 7V |
| Current Reduction Rate Above 25°C | $\Delta I_F$ | 0.50mA/°C | 0.40mA/°C | 0.40mA/°C |
| Ambient Temperature Range | | −25° ~ +50°C | | |

# LB Indicators

## CAP TYPES & COLOR COMBINATIONS

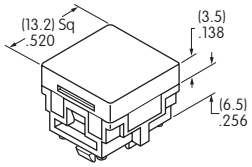
**Color Codes:** **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **J** Clear

### Solid Cap for Incandescent Lamp

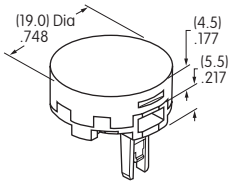
**Lens/Filter Colors Available:**

BJ FJ CJ GJ EJ

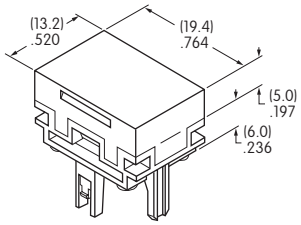
**AT476 Square**

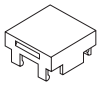



**AT4012 Round**




**AT4026 Rectangular**



Translucent Colored Lens

Transparent Clear Filter

Lamp AT607

Material: Polycarbonate Finish: Glossy

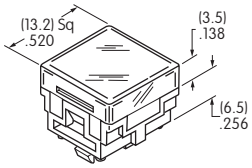
### Insert Cap for Incandescent or Neon Lamp

**Lens/Filter Colors Available:**

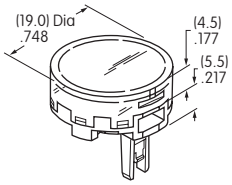
JB JF JC JG JE

JF and JG not suitable with neon lamp.

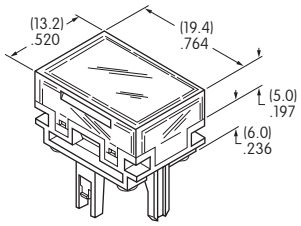
**AT477 Square**




**AT4013 Round**




**AT4027 Rectangular**



Transparent Clear Lens

Translucent Colored Filter

Lamp AT607 or 607N

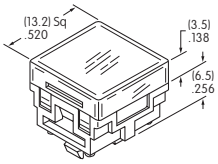
Material: Polycarbonate Finish: Glossy

### Cap for Bright LED without Resistor

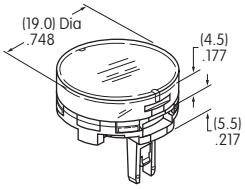
**Lens/Diffuser Colors Available:**

JB JC JD JF

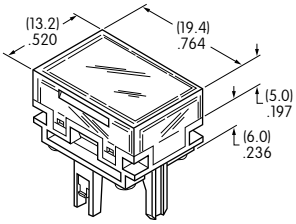
**AT4176 Square**

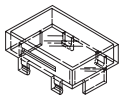



**AT4178 Round**

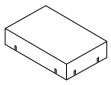



**AT4177 Rectangular**



Transparent Clear Lens



Translucent Colored Diffuser

Bright LED AT635

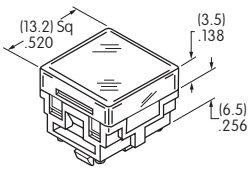
Material: Polycarbonate Finish: Glossy

### Cap for Bright LED with Resistor

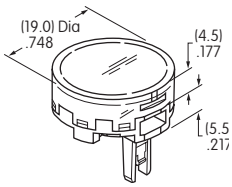
**Lens/Diffuser Colors Available:**

JB JC JD JF

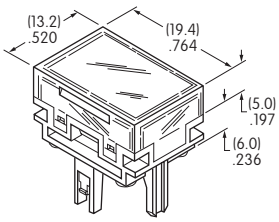
**AT4162 Square**

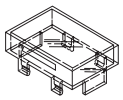



**AT4164 Round**

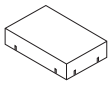



**AT4163 Rectangular**



Transparent Clear Lens



Translucent Colored Diffuser

Bright LED AT627

Material: Polycarbonate Finish: Glossy

# LB Indicators

## Complement to LB Pushbuttons

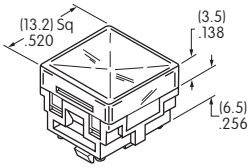
## CAP TYPES & COLOR COMBINATIONS

**Cap for Super Bright LEDs**

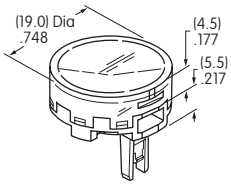
**JB** **Clear Lens White Diffuser**

Material:
Polycarbonate
Finish: Glossy

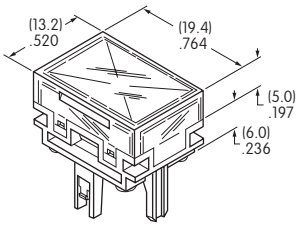
**AT4129 Square**

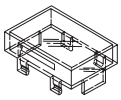



**AT4128 Round**

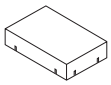



**AT4130 Rectangular**



Transparent Clear Lens

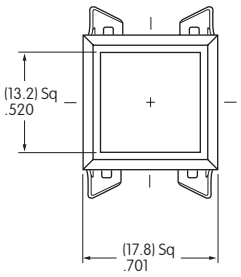


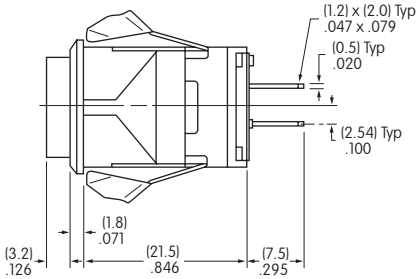
Translucent White Diffuser

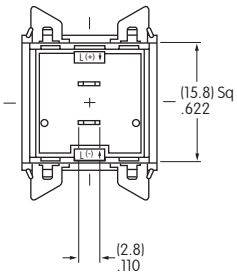
LEDs AT625 AT631 AT632

## TYPICAL INDICATOR DIMENSIONS

### Square

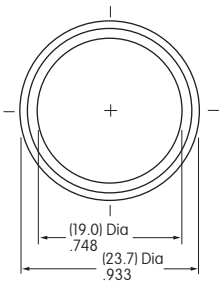


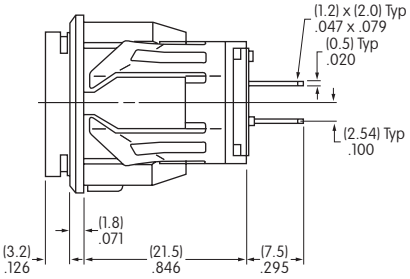



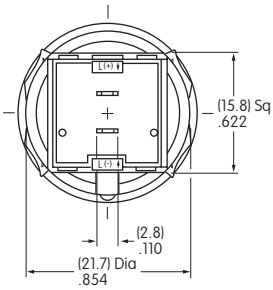



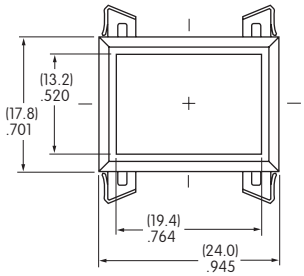
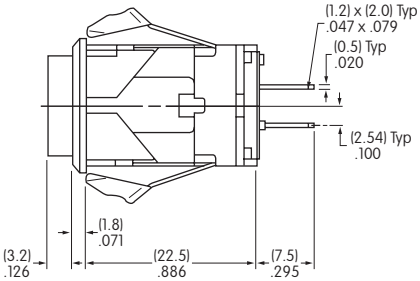
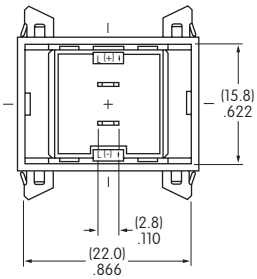

**LB01KW01-12-CJ**

### Round




**LB02KW01-12-CJ**

### Rectangular