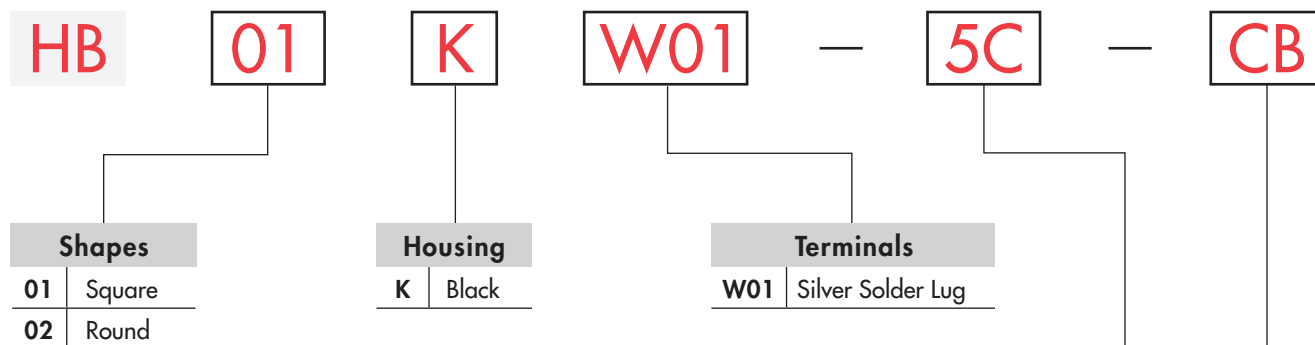
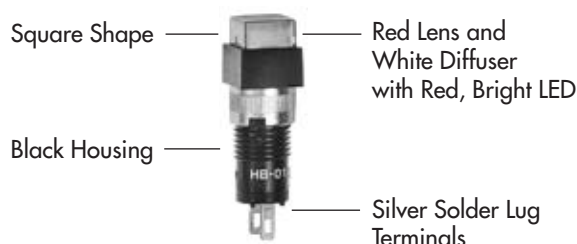


### TYPICAL INDICATOR ORDERING EXAMPLE



#### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**HB01KW01-5C-CB**



| LEDs         |       | Cap Types & Colors           |             |
|--------------|-------|------------------------------|-------------|
| Bright       |       | LED Cap: Lens/Diffuser Color |             |
| 5C           | Red   | CB                           | Red/White   |
| 5D           | Amber | DB                           | Amber/White |
| 5F           | Green | FB                           | Green/White |
|              |       | JB                           | Clear/White |
| Super Bright |       | LED Cap: Lens/Diffuser Color |             |
| 6B           | White | JB                           | Clear/White |
| 6F           | Green |                              |             |
| 6G           | Blue  |                              |             |

### 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. Single element LED is colored in OFF state.  
 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.

|                                |  |                                                                   | Bright       |       |       | Super Bright |       |      | Unit  |
|--------------------------------|--|-------------------------------------------------------------------|--------------|-------|-------|--------------|-------|------|-------|
|                                |  |                                                                   | 5C           | 5D    | 5F    | 6B           | 6F    | 6G   |       |
| Bright<br>AT633                |  | Note for Super Bright:  ATTENTION ELECTROSTATIC SENSITIVE DEVICES | Red          | Amber | Green | White        | Green | Blue |       |
| Super Bright<br>AT624G<br>Blue |  | Color                                                             | Red          | Amber | Green | White        | Green | Blue |       |
|                                |  | Maximum Forward Current $I_{FM}$                                  | 30           | 30    | 30    | 30           | 30    | 30   | mA    |
|                                |  | Typical Forward Current $I_F$                                     | 20           | 20    | 20    | 20           | 20    | 20   | mA    |
|                                |  | Forward Voltage $V_F$                                             | 1.95         | 2.0   | 2.1   | 3.6          | 3.3   | 3.3  | V     |
|                                |  | Maximum Reverse Voltage $V_{RM}$                                  | 5            | 5     | 5     | 5            | 7     | 7    | V     |
|                                |  | Current Reduction Rate Above 25°C $\Delta I_F$                    | 0.42         | 0.42  | 0.42  | 0.50         | 0.40  | 0.40 | mA/°C |
|                                |  | Ambient Temperature Range                                         | -25° ~ +50°C |       |       | -25° ~ +50°C |       |      |       |

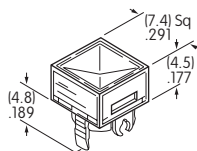
## CAP TYPES &amp; COLORS

## Colored Cap for Bright LEDs

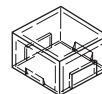
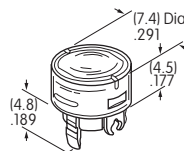
Lens/Diffuser  
Colors Available:

- CB** Red/White
- DB** Amber/White
- FB** Green/White

**AT4168**  
Square



**AT4169**  
Round



Transparent Colored Lens



Translucent White Diffuser



Colored LED  
AT633

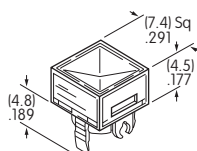
Material: Polycarbonate Finish: Glossy

## White Cap for Bright &amp; Super Bright LEDs

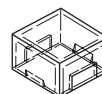
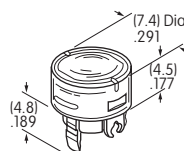
**JB** Clear Lens/  
White Diffuser

Material: Polycarbonate  
Finish: Glossy

**AT4033**  
Square



**AT4034**  
Round



Transparent Clear Lens



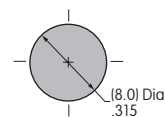
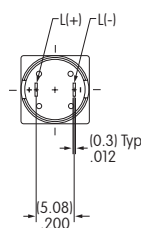
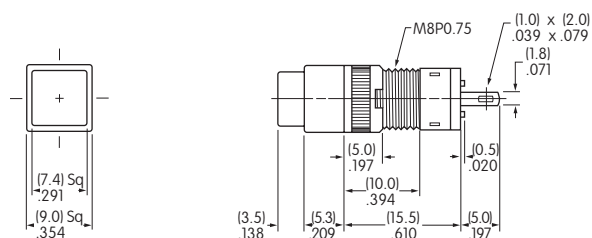
Translucent White Diffuser



Colored LEDs  
AT624, AT629,  
AT630, or AT633

## TYPICAL INDICATOR DIMENSIONS

## Square

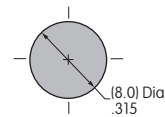
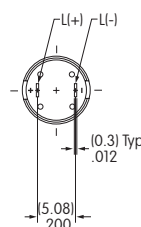
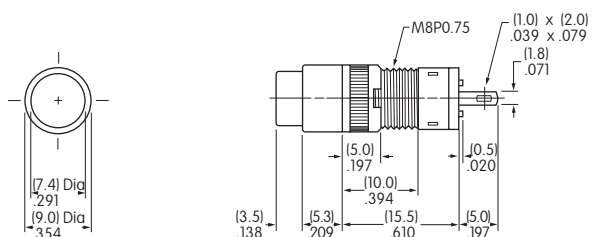


Recommended Panel  
Thickness: .020" ~ .197"  
(0.5 ~ 5.0mm)



HB01KW01-5C-CB

## Round



Recommended Panel  
Thickness: .020" ~ .197"  
(0.5 ~ 5.0mm)



HB02KW01-5C-CB

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[HB01KW01](#) [HB01KW01-5C-CB](#) [HB01KW01-5C-JB](#) [HB01KW01-5D-DB](#) [HB01KW01-5D-JB](#) [HB01KW01-5F-JB](#)  
[HB01KW01-6B-JB](#) [HB01KW01-6F-JB](#) [HB01KW01-6G-JB](#) [HB02KW01-5D-DB](#) [HB02KW01-5F-FB](#) [HB02KW01-5F-JB](#)  
[HB02KW01-6B-DB](#) [HB02KW01-6B-JB](#) [HB02KW01-6F-FB](#) [HB02KW01-6G-JB](#)