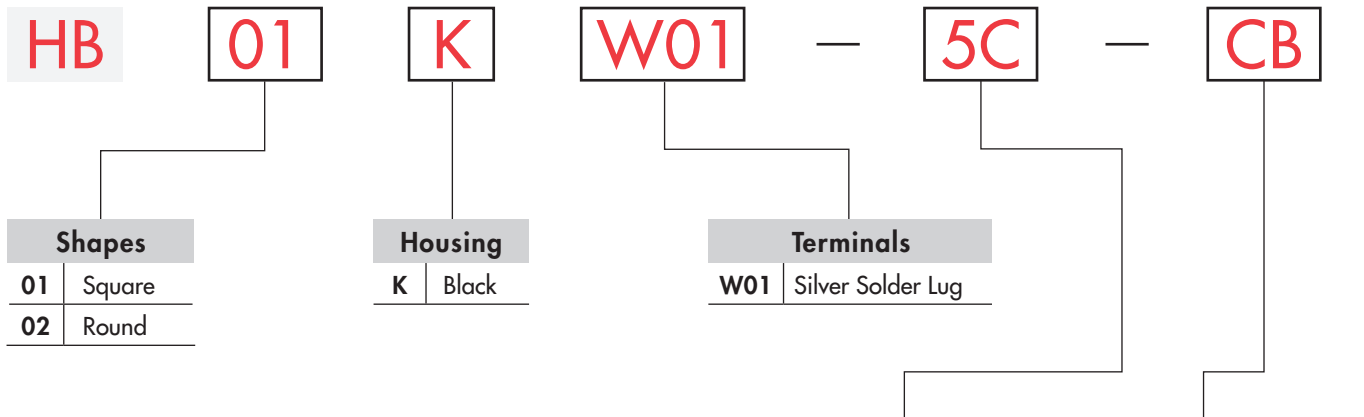
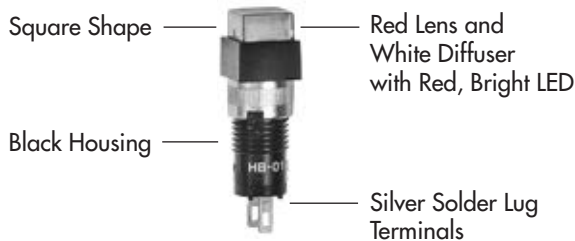


### TYPICAL INDICATOR ORDERING EXAMPLE



#### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE


**HB01KW01-5C-CB**



LEDs		Cap Types & Colors	
<b>Bright</b>		<b>LED Cap: Lens/Diffuser Color</b>	
5C	Red	CB	Red/White
5D	Amber	DB	Amber/White
5F	Green	FB	Green/White
		JB	Clear/White
<b>Super Bright</b>		<b>LED Cap: Lens/Diffuser Color</b>	
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 AT633	Super Bright AT624G Blue	Super Bright AT629B White	Super Bright AT630F Green	T-1 Bi-pin	Note for Super Bright: 	Bright			Super Bright			Unit	
						5C	5D	5F	6B	6F	6G		
					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	3.3	3.3	3.3	V
					Maximum Reverse Voltage	$V_{RM}$	5	5	5	7	7	7	V
					Current Reduction Rate Above 25°C	$\Delta I_F$	0.42	0.42	0.42	0.40	0.40	0.40	mA/°C
					Ambient Temperature Range		-25° ~ +50°C			-25° ~ +50°C			

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

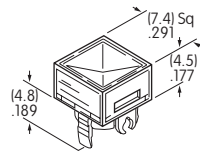
## CAP TYPES & COLORS

### Colored Cap for Bright LEDs

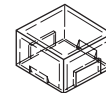
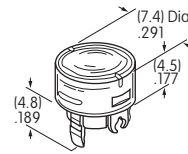
Lens/Diffuser  
Colors Available:

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

**AT4168**  
Square



**AT4169**  
Round



Transparent Colored Lens



Translucent White Diffuser



Colored LED AT633

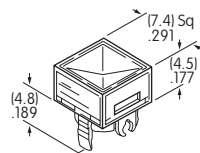
Material: Polycarbonate Finish: Glossy

### White Cap for Bright & Super Bright LEDs

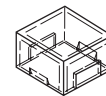
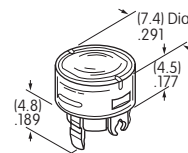
**JB** Clear Lens/  
White Diffuser

Material: Polycarbonate  
Finish: Glossy

**AT4033**  
Square



**AT4034**  
Round



Transparent Clear Lens

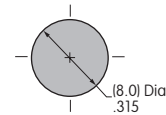
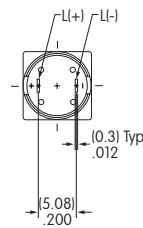
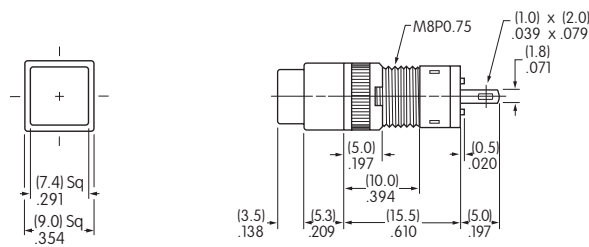


Translucent White Diffuser



Colored LEDs AT624, AT629, AT630, or AT633

## TYPICAL INDICATOR DIMENSIONS

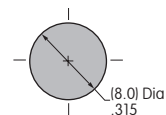
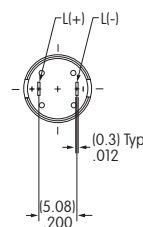
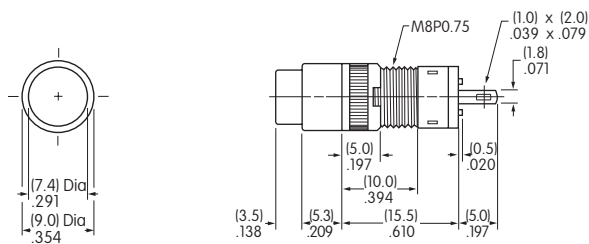


Recommended Panel Thickness: .020" ~ .197" (0.5 ~ 5.0mm)



Square

HB01KW01-5C-CB



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



Round

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](#)