

## TYPICAL INDICATOR ORDERING EXAMPLE

KB

02

K

W01

—

12

—

FF

Shapes

Bushing Mounting

01

Square

02

Round

03

Rectangular

Snap-in Mounting

04

Square

05

Round

06

Rectangular

Housing

K

Black only

Terminals

W01

Silver Solder Lug\*

Lamps

Incandescent Lamp Used with Solid Cap

05

5-volt

12

12-volt

Incandescent or Neon Lamp Used with Insert Cap

05

5-volt

12

12-volt

01

110-volt Neon

Bright LED Used with Cap for LED

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 Cap for LED

6B

White

6F

Green

6G

Blue

Cap Types & Colors

Solid Cap: Lens/Filter Colors

BB

White/White

FB

Green/White

CB

Red/White

FF

Green/Green

CC

Red/Red

GB

Blue/White

EB

Yellow/White

GG

Blue/Blue

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

AB

Square Spot Illuminated Black Cap/White Window

JB

Clear/White

JC

Clear/Red

JD

Clear/Amber

JF

Clear/Green

LED Cap: Lens/Diffuser Colors

JB

Clear/White

\* Wire harness & cable assemblies offered only in Americas

\* Wire harness & cable assemblies offered only in Americas

## DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

KB02KW01-12-FF



12-volt Incandescent Lamp  
Solid Cap with Green Lens  
and Green Filter

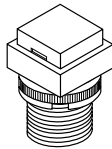
Black Housing  
Round with Bushing Mounting

Silver Solder Lug Terminals

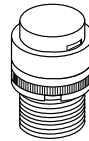
### SHAPES & MOUNTING TYPES

#### Bushing Mounting

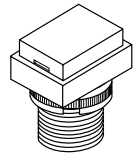
**01** .551" (14mm)  
Square



**02** .551" (14mm)  
Round

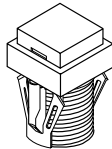


**03** .551" x .728" (14mm x 18.5mm)  
Rectangular

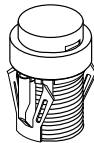


#### Snap-in Mounting

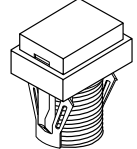
**04** .551" (14mm)  
Square



**05** .551" (14mm)  
Round



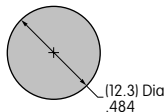
**06** .551" x .728" (14mm x 18.5mm)  
Rectangular



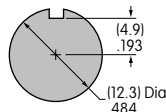
The bezel is an integral part of the indicator body.

#### Bushing Mounting

Without  
Keyway



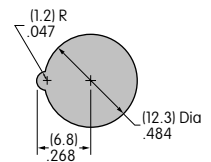
Panel Thickness:  
.020" ~ .315"  
(0.5 ~ 8mm)



With  
Keyway

#### Snap-in Mounting

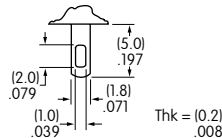
Panel Thickness:  
.039" ~ .138"  
(1.0 ~ 3.5mm)



### TERMINALS

**W01**

Silver Solder Lug



### LAMP COLORS & SPECIFICATIONS

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

If the source voltage exceeds the rated voltage, a ballast resistor is required.

The ballast resistor calculation and more lamp detail are shown in the Supplement section.

#### Incandescent & Neon Lamps

| AT611<br>Incandescent                                                               | AT615<br>Neon                                                                       |           | <b>05</b> | <b>12</b>     | <b>01</b> | Recommended Resistors<br>for Neon:<br>33K ohms for 110V AC;<br>100K ohms for 220V AC |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|---------------|-----------|--------------------------------------------------------------------------------------|
|  |  | Voltage   | V         | 5V AC         | 12V AC    | 110V AC                                                                              |
|                                                                                     |                                                                                     | Current   | I         | 115mA         | 60mA      | 1.5mA                                                                                |
|                                                                                     |                                                                                     | Endurance | Hours     | 7,000 average |           | 10,000                                                                               |

#### Bright LED without Resistor

AT635

LEDs are colored in OFF state.





T-1 1/2 Bi-pin

|                                   | Red             | Amber | Green | No Code No Resistor |           |           |
|-----------------------------------|-----------------|-------|-------|---------------------|-----------|-----------|
| Color Codes                       | 5C              | 5D    | 5F    | Red                 | Amber     | Green     |
| Forward Peak Current              | I <sub>FM</sub> |       |       | 30mA                | 30mA      | 30mA      |
| Continuous Forward Current        | I <sub>F</sub>  |       |       | 20mA                | 20mA      | 20mA      |
| Forward Voltage                   | V <sub>F</sub>  |       |       | 1.9V                | 2.0V      | 2.1V      |
| Reverse Peak Voltage              | V <sub>RM</sub> |       |       | 5V                  | 5V        | 5V        |
| Current Reduction Rate Above 25°C | ΔI <sub>F</sub> |       |       | 0.42mA/°C           | 0.29mA/°C | 0.42mA/°C |
| Ambient Temperature Range         |                 |       |       | -25° ~ +50°C        |           |           |



T-1 1/2 Bi-pin

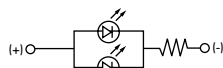
## LAMP COLORS &amp; SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C.  
If the source voltage exceeds the rated voltage, a ballast resistor is required.  
The ballast resistor calculation and more lamp detail are shown in the Supplement section.

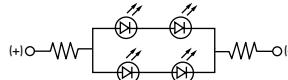
## Bright LED with Resistor

| AT634                                                                                                                                         | Color Codes:                      | Red          | Amber | Green | Resistor Codes |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|-------|-------|----------------|------|------|
|                                                                                                                                               |                                   | 5C           | 5D    | 5F    | 05             | 12   | 24   |
| LEDs are colored in OFF state.<br><br><br><br>T-1 1/4 Bi-pin | Forward Peak Current              | $I_{FM}$     |       |       | —              | —    | —    |
|                                                                                                                                               | Continuous Forward Current        | $I_F$        |       |       | 25mA           | 20mA | 10mA |
|                                                                                                                                               | Forward Voltage                   | $V_F$        |       |       | 5V             | 12V  | 24V  |
|                                                                                                                                               | Reverse Peak Voltage              | $V_{RM}$     |       |       | 4V             | 8V   | 16V  |
|                                                                                                                                               | Current Reduction Rate Above 25°C | $\Delta I_F$ |       |       | —              | —    | —    |
|                                                                                                                                               | Ambient Temperature Range         |              |       |       | -25° ~ +50°C   |      |      |

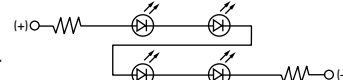
AT634  
5-volt  
2-element  
with 1 Resistor



AT634  
12-volt  
4-element  
with 2 Resistors



AT634  
24-volt  
4-element  
with 2 Resistors



## Super Bright Single Element LED

| AT625G Blue<br>AT631B White<br>AT632F Green                                                           | Color                             | 6B           | 6F    | 6G   |
|-------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|-------|------|
|                                                                                                       |                                   | White        | Green | Blue |
| <br><br>T-1 Bi-pin | Forward Peak Current              | $I_{FM}$     |       |      |
|                                                                                                       | Continuous Forward Current        | $I_F$        |       |      |
|                                                                                                       | Forward Voltage                   | $V_F$        |       |      |
|                                                                                                       | Reverse Peak Voltage              | $V_{RM}$     |       |      |
|                                                                                                       | Current Reduction Rate Above 25°C | $\Delta I_F$ |       |      |
|                                                                                                       | Ambient Temperature Range         |              |       |      |



T-1 Bi-pin

## CAP TYPES &amp; COLOR COMBINATIONS

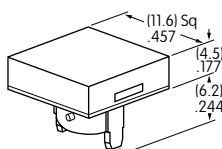
Color Codes: B White C Red E Yellow F Green G Blue J Clear

## Solid Cap for Incandescent Lamp

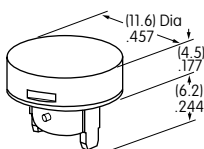
Lens/Filter Colors Available:

|    |    |
|----|----|
| BB | FB |
| CB | FF |
| CC | GB |
| EB | GG |

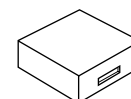
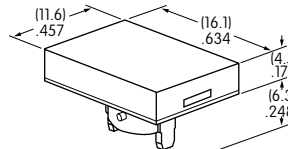
AT485  
Square



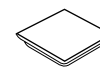
AT486  
Round



AT4021  
Rectangular



Translucent Colored Lens



Translucent Colored Filter



Lamp AT611

Material: Polycarbonate Finish: Glossy

### CAP TYPES & COLOR COMBINATIONS

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

#### Insert Cap for Incandescent or Neon Lamp

**Lens/Filter Colors Available:**

**JB**

**AT487**  
Square

**AT488**  
Round

**AT4022**  
Rectangular



Transparent Clear Lens

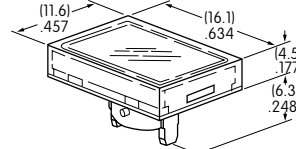
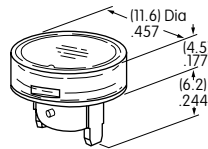
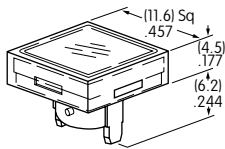
**JC**

**JE**



Translucent Colored Filter

**JF**



**JG**



JF and JG not suitable with neon lamp.

Material: Polycarbonate    Finish: Glossy

Lamp AT611

Lamp AT615

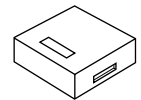
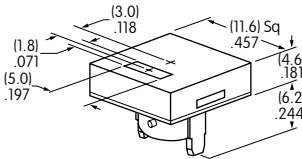
#### Spot Illuminated Cap for Bright LED without Resistor or with Resistor

**Cap/Window Colors Available:**

**AB**

**Opaque Black Cap with Translucent White Window for Spot Illumination**

**AT4051**  
Square



Bright LED  
AT635

Bright LED  
AT634

Material: Polycarbonate    Finish: Matte

#### Cap for Bright LED without Resistor or LED with Resistor

**Lens/Diffuser Colors Available:** (AT4133, 4132, 4134 white diffusers; AT4158, 4160, 4159 colored diffusers)

**JB**

**AT4133**

**AT4132**

**AT4134**



Transparent Clear Lens

Square

Round

Rectangular

**JC**

**AT4158**

**AT4160**

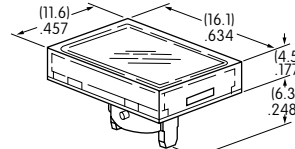
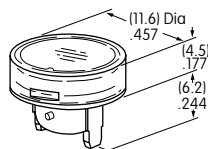
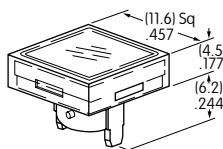
**AT4159**



Translucent Diffuser

**JD**

**JF**



Bright LED  
AT635

Bright LED  
AT634

Material: Polycarbonate    Finish: Glossy

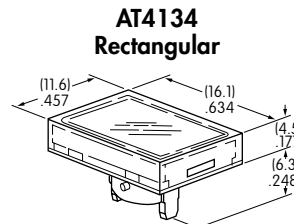
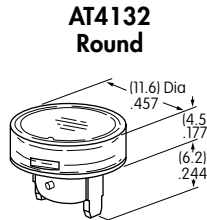
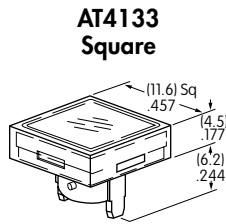
## CAP TYPES &amp; COLOR COMBINATIONS

## Cap for Super Bright LED

Lens/Diffuser  
Colors Available:

JB

Clear Lens  
White Diffuser



Translucent Clear Lens



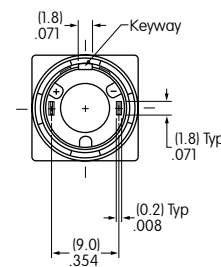
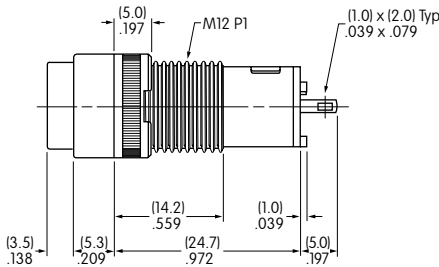
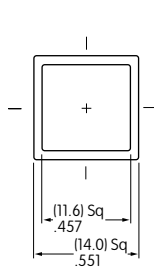
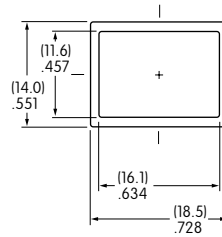
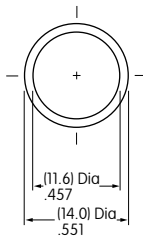
Translucent White Diffuser



Super Bright LEDs  
AT625, AT631, AT632

Material: Polycarbonate Finish: Glossy

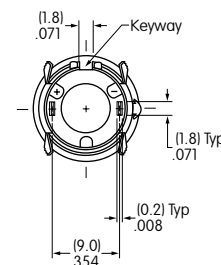
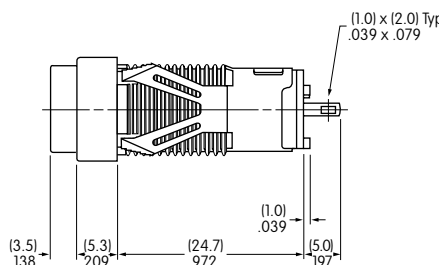
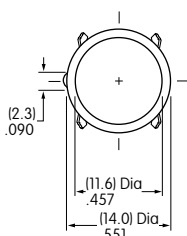
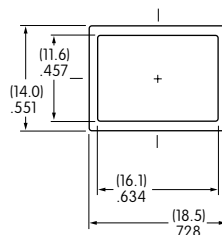
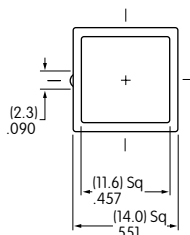
## TYPICAL INDICATOR DIMENSIONS



## Bushing Mount



KB01KW01-05-GG



## Snap-in Mount



KB05KW01-05-FF

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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