

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* |

* Wire harness & cable assemblies offered only in Americas

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 |
| | 12 | 12-volt |
| 5F Green | 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 |
|----|-------------|

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

KB02KW01-12-FF



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

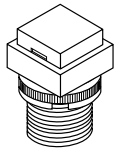
Black Housing Round with Bushing Mounting

Silver Solder Lug Terminals

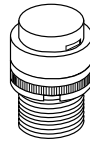
SHAPES & MOUNTING TYPES

Bushing Mounting

01 .551" (14mm)
Square



02 .551" (14mm)
Round

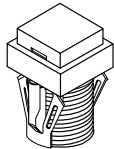


03 .551" x .728" (14mm x 18.5mm)
Rectangular



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 Incandescent | AT615 Neon | | 05 | 12 | 01 | Recommended Resistors for Neon: 33K ohms for 110V AC; 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 | Red | Amber | Green | No Code No Resistor | | |
|---|-----------|-----------|--------------|----------------------------|-----------|-----------|
| | 5C | 5D | 5F | Red | Amber | Green |
| LEDs are colored in OFF state. | | | | | | |
|  | | | | | | |
|  | | | | | | |
| T-1 1/2 Bi-pin | | | | | | |
| Color Codes | 5C | 5D | 5F | | | |
| Forward Peak Current | | | I_{FM} | 30mA | 30mA | 30mA |
| Continuous Forward Current | | | I_F | 20mA | 20mA | 20mA |
| Forward Voltage | | | V_F | 1.9V | 2.0V | 2.1V |
| Reverse Peak Voltage | | | V_{RM} | 5V | 5V | 5V |
| Current Reduction Rate Above 25°C | | | ΔI_F | 0.42mA/°C | 0.29mA/°C | 0.42mA/°C |
| Ambient Temperature Range | | | | -25° ~ +50°C | | |

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.

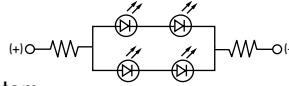
Bright LED with Resistor

| | | | | | | | | |
|---|-----------------------------------|------------------|--------------------|--------------------|----------------|-----------|-----------|------|
| AT634 LEDs are colored in OFF state.  T-1 1/4 Bi-pin | Color Codes: | Red 5C | Amber 5D | Green 5F | Resistor Codes | | | |
| | | | | | 05 | 12 | 24 | |
| | 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 | | | | ΔI_F | — | — | — |
| Ambient Temperature Range | | | | | -25° ~ +50°C | | | |

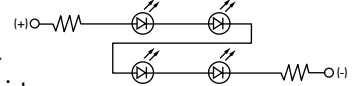
AT634
5-volt
2-element
with 1 Resistor





AT634
12-volt
4-element
with 2 Resistors



AT634
24-volt
4-element
with 2 Resistors



Super Bright Single Element LED

| | | | | | | | | |
|---|--|--|--|-----------|--------------|-----------|-----------|-----------|
| AT625G Blue AT631B White AT632F Green  T-1 Bi-pin |  | | | 6B | 6F | 6G | | |
| | Color | | | | White | Green | Blue | |
| | Forward Peak Current | | | | I_{FM} | 30mA | 30mA | 30mA |
| | Continuous Forward Current | | | | I_F | 20mA | 20mA | 20mA |
| | Forward Voltage | | | | V_F | 3.6V | 3.5V | 3.6V |
| | Reverse Peak Voltage | | | | V_{RM} | 5V | 5V | 5V |
| | Current Reduction Rate Above 25°C | | | | ΔI_F | 0.50mA/°C | 0.50mA/°C | 0.50mA/°C |
| Ambient Temperature Range | | | | | -25° ~ +50°C | | | |

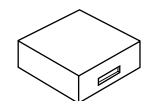
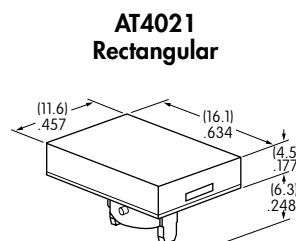
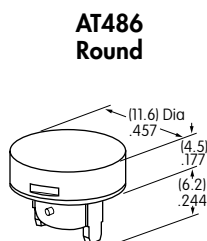
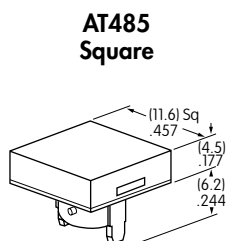
CAP TYPES & COLOR COMBINATIONS

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**



Translucent Colored Lens



Translucent Colored Filter



Lamp AT611

Material: Polycarbonate Finish: Glossy

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

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

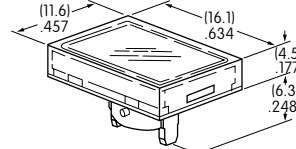
AT4022
Rectangular



Transparent Clear Lens

JC

JE



Translucent Colored Filter

JF

JG



Lamp AT611 Lamp AT615

JF and JG not suitable with neon lamp.

Material: Polycarbonate Finish: Glossy

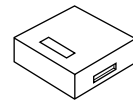
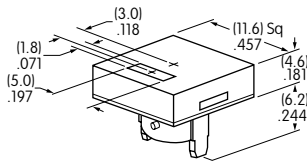
Spot Illuminated Cap for Bright LED without Resistor or with Resistor

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

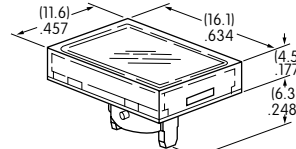
AT4159



Translucent Diffuser

JD

JF



Bright LED AT635

Bright LED AT634

Material: Polycarbonate Finish: Glossy

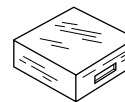
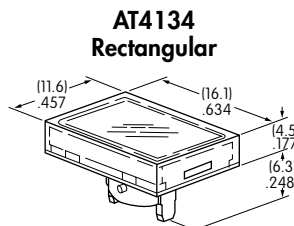
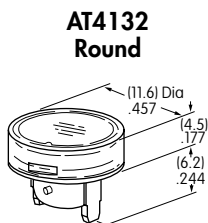
CAP TYPES & COLOR COMBINATIONS

Cap for Super Bright LED

Lens/Diffuser
Colors Available:



Clear Lens
White Diffuser



Translucent Clear Lens



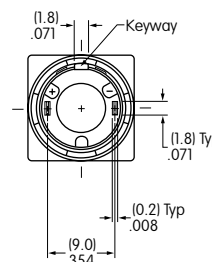
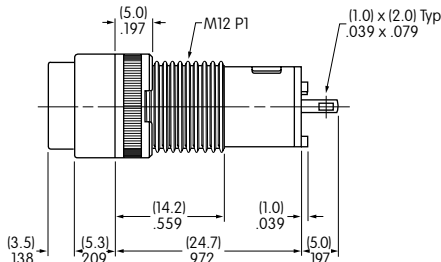
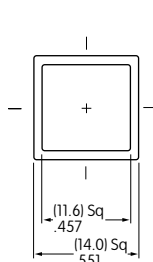
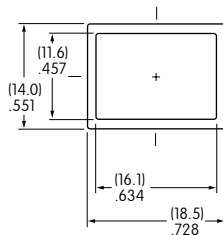
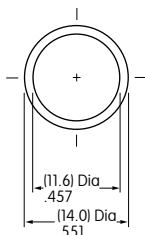
Translucent White Diffuser



Super Bright LEDs
AT625, AT631, AT632

Material: Polycarbonate Finish: Glossy

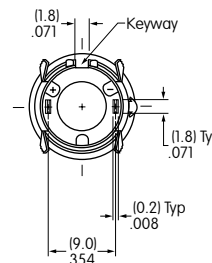
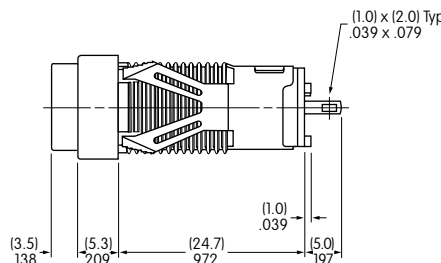
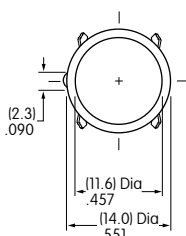
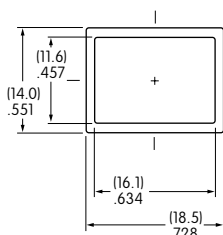
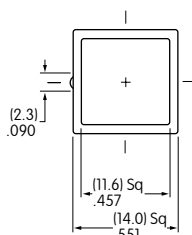
TYPICAL INDICATOR DIMENSIONS



Bushing Mount



KB01KW01-05-GG



Snap-in Mount



KB05KW01-05-FF

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



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

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- 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);
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- 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);
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JONHON

«JONHON» (основан в 1970 г.)

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(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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