

# Q6 series

Ø6 mm panel mount LED indicators



## DISTINCTIVE FEATURES

3 mm colored diffused epoxy lens or 3 mm water clear super bright LEDs

Prominent, recessed and flush bezel styles

(2.0 x 0.5) solder lug terminals, pins or (200 mm long) wire terminations, other lengths available on request



## ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating & Storage Temperature Range:  
**Rear plastic body:** -30 °C to +65 °C ( -22 °F to +149 °F)  
**Rear epoxy body:** -40 °C to +85 °C ( -40 °F to +185 °F)



## GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 4 cNm (dependent on option)
- Maximum panel thickness 7 mm



## MATERIALS

- Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body



## MOUNTING



The company reserves the right to change specifications without notice.

All LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal and subject to variations.



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## ELECTRICAL SPECIFICATIONS

### STANDARD LED INTENSITY

| LED COMPONENT SPECIFICATIONS                                                     |                        |          |                 |
|----------------------------------------------------------------------------------|------------------------|----------|-----------------|
|                                                                                  | Prominent and Recessed | Flush    | Forward Voltage |
| HE Red                                                                           | 40 mcd                 | 10 mcd   | 2.0 V           |
| Green                                                                            | 50 mcd                 | 12 mcd   | 2.2 V           |
| Yellow                                                                           | 30 mcd                 | 6 mcd    | 2.1 V           |
| Blue                                                                             | 1,200 mcd              | 100 mcd  | 3.8 V           |
| White                                                                            | 1,200 mcd              | 160 mcd  | 3.8 V           |
| Orange                                                                           | 60 mcd                 | 10 mcd   | 2.0 V           |
| Bi-color (Typical) (Red/Green)                                                   | 20/15 mcd              | 10/8 mcd | 2.0 V/2.2V      |
| Bi-color - The color is changed by reversing the polarity of the supply voltage. |                        |          |                 |

### SUPER BRIGHT LED INTENSITY

| LED COMPONENT SPECIFICATIONS |                        |           |                 |
|------------------------------|------------------------|-----------|-----------------|
|                              | Prominent and Recessed | Flush     | Forward Voltage |
| HE Red                       | 1,000 mcd              | 700 mcd   | 2.2 V           |
| Green                        | 1,200 mcd              | 2,000 mcd | 3.5 V           |
| Yellow                       | 2,000 mcd              | 8,000 mcd | 2.3 V           |
| Blue                         | 1,600mcd               | 200 mcd   | 3.3 V           |
| White                        | 1,200 mcd              | 350 mcd   | 3.3 V           |
| Orange                       | 10,000 mcd             | 500 mcd   | 2.2 V           |

### HYPER BRIGHT LED INTENSITY

| LED COMPONENT SPECIFICATIONS |                        |         |                 |
|------------------------------|------------------------|---------|-----------------|
|                              | Prominent and Recessed | Flush   | Forward Voltage |
| HE Red                       | 3,700 mcd              | 600 mcd | 2.2 V           |
| Green                        | 2,000 mcd              | 350 mcd | 3.2 V           |
| Yellow                       | 1,200 mcd              | 140 mcd | 2.0 V           |
| Orange                       | 4,500 mcd              | 400 mcd | 2.2 V           |

- The operating voltage must not be exceeded by more than 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 ma on a discrete led unless otherwise stated.
- Luminous intensities and color shades of white LEDs may vary within a batch.
- Luminous intensity will be reduced with lower operating current.

| Voltage          | Operating Voltage | Operating Current   |
|------------------|-------------------|---------------------|
|                  | (Min to Max)      | (Typical All Types) |
| 02 (No Resistor) | 1.8 to 3.3 VDC    | 20 mA max*          |
| 6 VDC            | 5.4 to 6.6 VDC    | 20 mA               |
| 12 VDC           | 10.8 to 13.2 VDC  | 20 mA               |
| 24 VDC           | 21.6 to 26.4 VDC  | 20 mA               |
| 28 VDC           | 25.2 to 30.8 VDC  | 20 mA               |

\* Customer to supply resistor for desired operating current.



## BUILD YOUR PART NUMBER

|                                                 |                                      |                                      |                                                                             |                             |
|-------------------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------------------------------------------------|-----------------------------|
| <div><div></div><div>Q</div></div>              | <div><div></div></div>               | <div><div></div></div>               | <div><div></div></div>                                                      | <div><div></div></div>      |
| SERIES                                          | MOUNTING HOLE                        | BEZEL STYLE                          | TERMINALS                                                                   | BEZEL FINISH                |
|                                                 | <div>6</div> Ø6 mm                   | <div>P</div> Prominent               | <div>1</div> Solder Lug/<br>Fastons (2.0 x 0.5)                             | <div>C</div> Bright Chrome  |
|                                                 |                                      | <div>R</div> Recessed                | <div>2</div> Pins                                                           | <div>B</div> Black Chrome   |
|                                                 |                                      | <div>F</div> Flush                   | <div>3</div> Wires                                                          | <div>G</div> Satin Grey     |
|                                                 |                                      |                                      | <div>4</div> Rear epoxy Pins                                                |                             |
|                                                 |                                      |                                      | <div>5</div> Rear epoxy Wires                                               |                             |
|                                                 |                                      |                                      | <div>6</div> Short body Pins                                                |                             |
|                                                 |                                      |                                      | <div>7</div> Short body Wires                                               |                             |
|                                                 |                                      |                                      |                                                                             |                             |
| <div><div></div></div>                          | <div><div></div></div>               | <div><div></div></div>               | <div><div></div></div>                                                      | <div><div></div></div>      |
| TYPE OF ILLUMINATION                            | LED COLOR                            |                                      | VOLTAGE                                                                     | SEALING                     |
| <div>XX</div> Fixed Light                       | <div>R</div> Red                     | <div>SR</div> Super Bright Red       | <div>02</div> no resistor*                                                  | <div>(Blank)</div> Unsealed |
| <div>KK</div> Flashing Light<br>(12 V – 28 VDC) | <div>G</div> Green                   | <div>SG</div> Super Bright<br>Green  | <div>06</div> 6V DC                                                         | <div>E</div> IP67           |
| <div>YY</div> Bi-color                          | <div>Y</div> Yellow                  | <div>SY</div> Super Bright<br>Yellow | <div>12</div> 12 VDC                                                        |                             |
|                                                 | <div>B</div> Blue                    | <div>SB</div> Super Bright<br>Blue   | <div>12A</div> 12 VAC/DC                                                    |                             |
|                                                 | <div>W</div> White                   | <div>SW</div> Super Bright<br>White  | <div>24</div> 24 VDC                                                        |                             |
|                                                 | <div>O</div> Orange                  | <div>SO</div> Super Bright<br>Orange | <div>24A</div> 24 VAC/DC                                                    |                             |
|                                                 | <div>HR</div> Hyper Bright Red       | <div>RG</div> Red/Green              | <div>28</div> 28 VDC                                                        |                             |
|                                                 | <div>HG</div> Hyper Bright<br>Green  | <div>RY</div> Red/Yellow             | <div>28A</div> 28 VAC/DC                                                    |                             |
|                                                 | <div>HY</div> Hyper Bright<br>Yellow | <div>GY</div> Green/Yellow           | * please refer to the<br>forward voltage in<br>electrical<br>specifications |                             |
|                                                 | <div>HO</div> Hyper Bright<br>Orange |                                      |                                                                             |                             |



## ABOUT THIS SERIES



**Notice:** please note that not all combinations of above numbers are available.

- Gold faston terminal denotes anode (+), silver terminal denotes cathode (-)
- Standard wire length is 200 mm, 24 AWG UL1061, red wire denotes anode (+), black wire denotes cathode (-) for other wire lengths consult APEM.
- For LEDs with alternative voltages consult APEM

- Bi-color leds, by connecting the gold solder lug (+) one color is produced, by reversing the supply voltage another color is produced – bi-colors are available up to 28 V in DC only.
- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- Short body options are only available up to 24 VDC.

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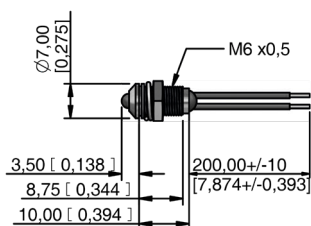
## PROMINENT BEZEL



## WIRES



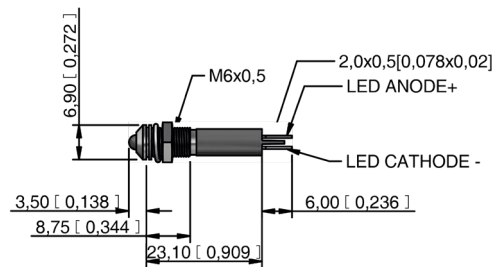
## REAR EPOXY WIRES



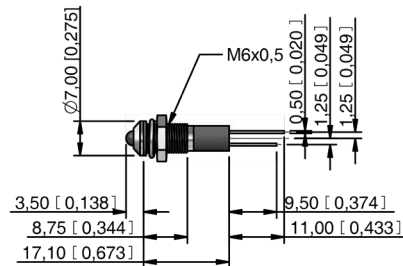
## SHORT BODY WIRES



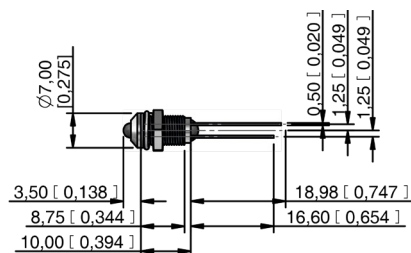
## SOLDER LUG/FASTON



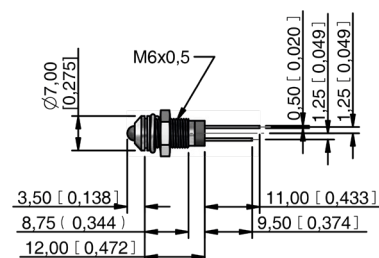
## PINS



## REAR EPOXY PINS



## SHORT BODY PINS



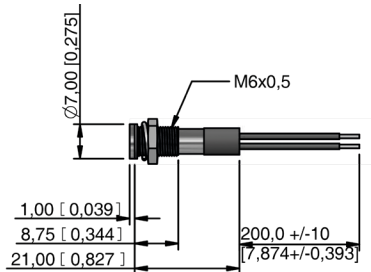
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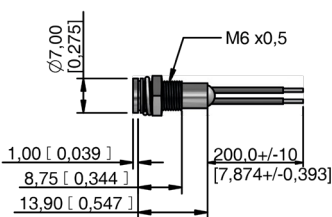
## FLUSH BEZEL



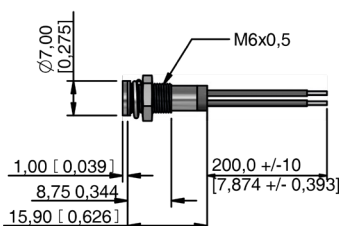
### WIRES



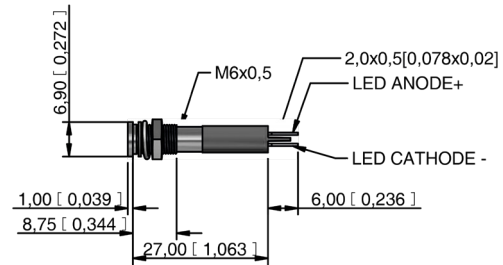
### REAR EPOXY WIRES



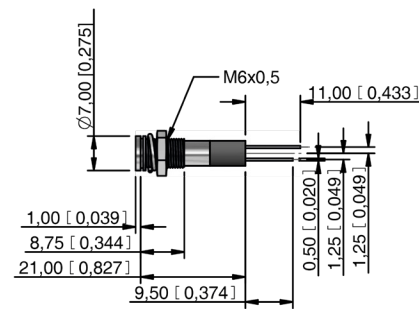
### SHORT BODY WIRES



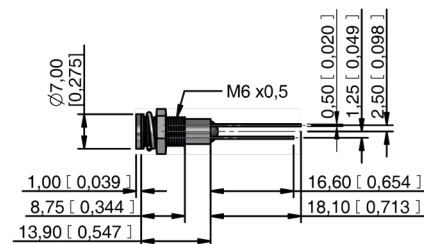
## SOLDER LUG/FASTON



### PINS



### REAR EPOXY PINS



### SHORT BODY PINS



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## RECESSED BEZEL



## WIRES



## REAR EPOXY WIRES



## SHORT BODY WIRES



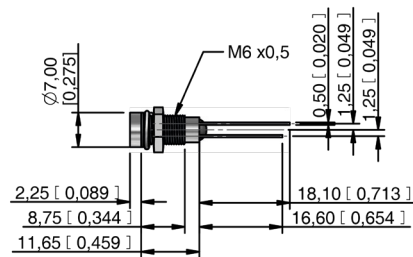
## SOLDER LUG/FASTON



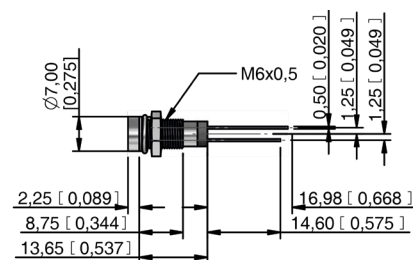
## PINS



## REAR EPOXY PINS



## SHORT BODY PINS





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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.