

# 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

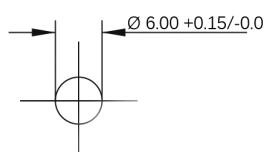
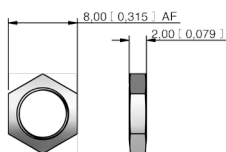


## MATERIALS

- 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.



# Q6 series

Ø6 mm panel mount LED indicators



## 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>4</div> Rear epoxy Pins  |
|                                                 |                                      | <div>R</div> Recessed                | <div>2</div> Pins                                                           | <div>5</div> Rear epoxy Wires |
|                                                 |                                      | <div>F</div> Flush                   | <div>3</div> Wires                                                          | <div>6</div> Short body Pins  |
|                                                 |                                      |                                      | <div>7</div> Short body Wires                                               | <div>C</div> Bright Chrome    |
|                                                 |                                      |                                      |                                                                             | <div>B</div> Black Chrome     |
|                                                 |                                      |                                      |                                                                             | <div>G</div> Satin Grey       |
|                                                 |                                      |                                      |                                                                             |                               |
| <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.

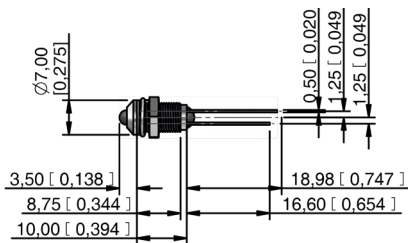
# Q6 series

Ø6 mm panel mount LED indicators

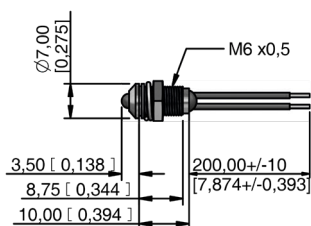
## PROMINENT BEZEL



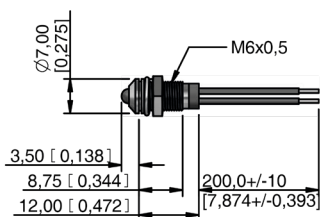
## WIRES



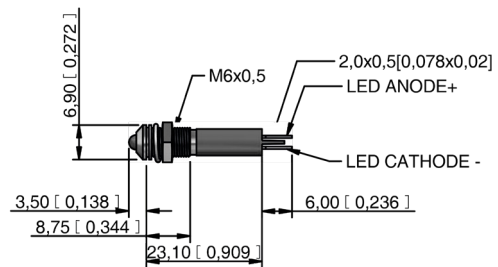
## REAR EPOXY WIRES



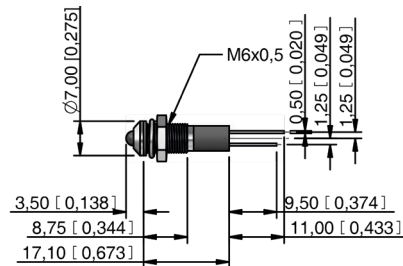
## SHORT BODY WIRES



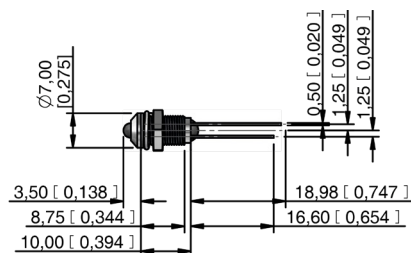
## SOLDER LUG/FASTON



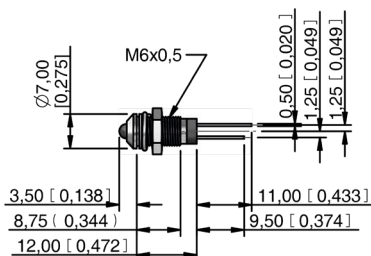
## PINS



## REAR EPOXY PINS



## SHORT BODY PINS



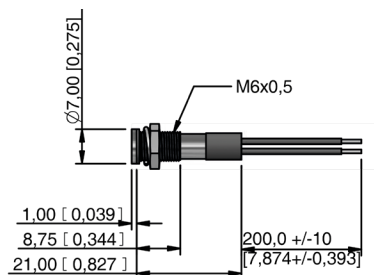
# Q6 series

Ø6 mm panel mount LED indicators

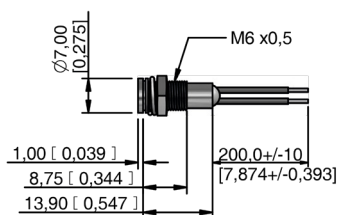
## FLUSH BEZEL



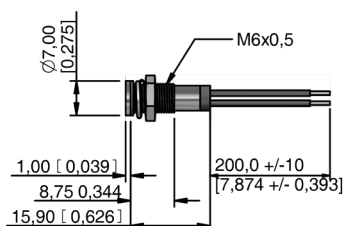
### WIRES



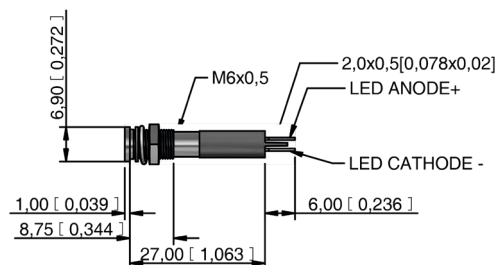
### REAR EPOXY WIRES



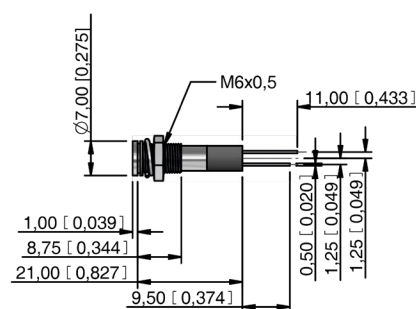
### SHORT BODY WIRES



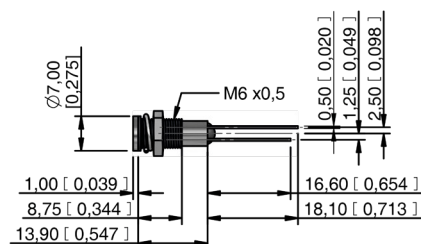
## SOLDER LUG/FASTON



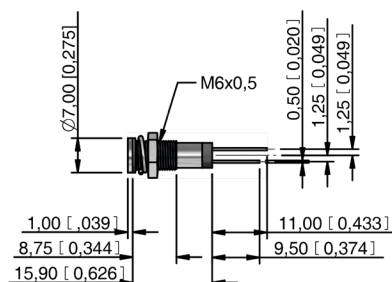
### PINS



### REAR EPOXY PINS



### SHORT BODY PINS



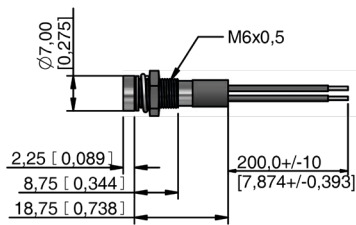
# Q6 series

Ø6 mm panel mount LED indicators

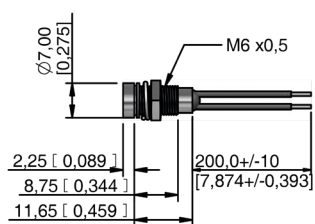
## RECESSED BEZEL



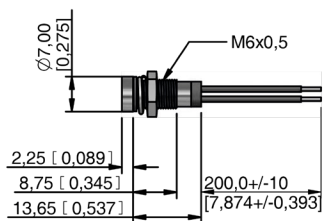
## WIRES



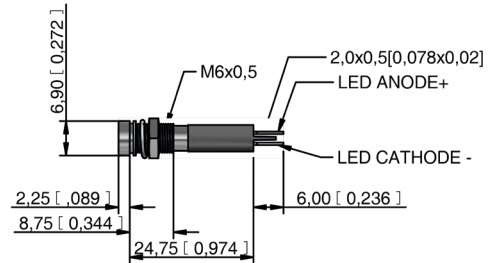
## REAR EPOXY WIRES



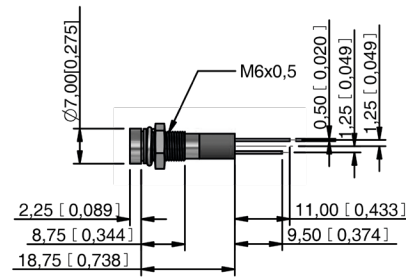
## SHORT BODY WIRES



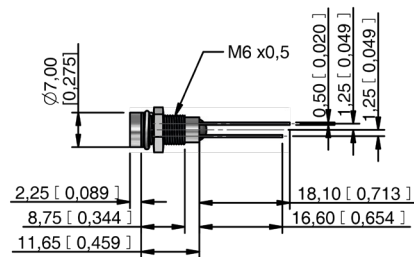
## SOLDER LUG/FASTON



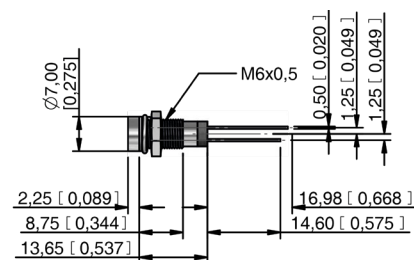
## PINS



## REAR EPOXY PINS



## SHORT BODY PINS



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9