

QRM6 series

Ø6 mm rear panel mount LED indicators



DISTINCTIVE FEATURES

3 mm flush diffused LED, standard, hyper bright or clear water

Bi-color LED options

200 mm wire or pin terminations



ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating Temperature Range: -40 °C to +85° C (-40 °F to +185 °F)
- Storage Temperature Range: -55 °C to +100 °C (-67 °F to +212 °F)



GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 60°
- Life Expectancy: 100,000 hours
- Max Panel Thickness: 3.5 mm
- Torque: 60 cNm
- Insulation resistance : 4,000 MΩ at 500 VDC
- Salt spray test: 96 hours (IEC 68-2-11)

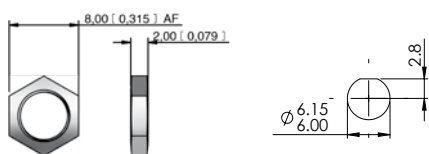


MATERIALS

- Body: Black plated brass or anodized aluminum
- Lock Washer: Spring steel
- Nut: Black plated brass
- Terminal Seal: Epoxy
- Panel Seal: Nitrile O-ring
- Wires: 24 AWG to UL1061 or UL1213 on request



MOUNTING



The company reserves the right to change specifications without notice.

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		
	MCD Output (all voltages)	Forward Voltage
HE Red	10 mcd	2.0 V
Green	45 mcd	2.2 V
Yellow	100 mcd	2.1 V
Blue	200 mcd	3.8 V
White	500 mcd	3.3 V
Bi-color (Typical) (Red/Green)	10/8 mcd	2.0 V/2.2 V
Bi-color - The color is changed by reversing the polarity of the supply voltage.		

SUPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS		
	MCD Output (all voltages)	Forward Voltage
HE Red	700 mcd	2.2 V
Green	2,000 mcd	3.5 V
Yellow	8,000 mcd	2.3 V
Blue	200 mcd	3.3 V
White	1560 mcd	3.3 V
Orange	500 mcd	2.2 V

HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS		
	MCD Output (all voltages)	Forward Voltage
HE Red	600 mcd	2.2 V
Green	350 mcd	3.2 V
Yellow	140 mcd	2.0 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 3.8 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.

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BUILD YOUR PART NUMBER

QRM			
SERIES	MOUNTING HOLE	TERMINALS	BEZEL FINISH
	6 Ø6 mm	4 Pins 5 Wires	B Black AK Anodized Dark Olive AN Anodized Black
TYPE OF ILLUMINATION	LED COLOR		VOLTAGE
XX Fixed Light YY Bi-color	R Red G Green Y Yellow B Blue W White HR Hyper Bright Red HG Hyper Bright Green	HY Hyper Bright Yellow SR Super Bright Red SG Super Bright Green SY Super Bright Yellow SB Super Bright Blue	SW Super Bright White SO Super Bright Orange RG Red/Green RY Red/Yellow GY Green/Yellow
			02 no resistor* 06 6 VDC 12 12 VDC 24 24 VDC 28 28 VDC
			E IP67 (Standard)

* please refer to the forward voltage in electrical specifications



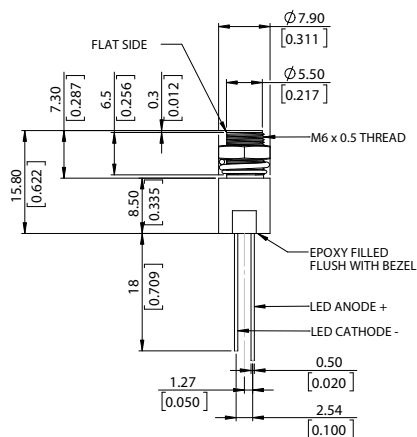
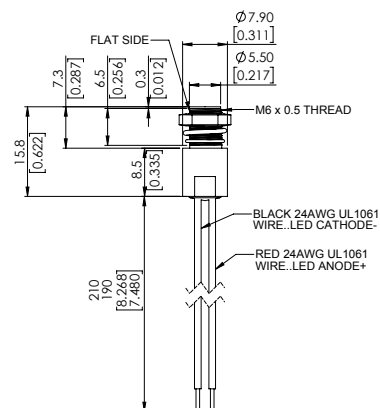
ABOUT THIS SERIES



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

- 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 alternate voltages and multi-voltage options consult APEM
- Bi-color LEDs, by connecting the gold Faston (+) one color is produced, by reversing the supply voltage another color is produced. Bi-color are available up to 28 VDC
- Take care when soldering (recommended solder temperature 270 °C - 2 sec)

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Mouser Electronics

Authorized Distributor

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