

# Laser module red 635nm, circle with dot

## Product codes:

Reference: AM9890

EAN13: -

UPC: 90132000

## Product features:

Light color: Red

Wavelength: 635 nm

Voltage: 5 V DC

Cable length: 100 cm

Connector: 5.5x2.1 mm

Waterproof grade: IP20

Lifetime: 8,000 hours

Appearance: Circle with a dot



## Product attributes:

Performance: 10 mW, 30 mW, 50 mW, 100 mW, 150 mW, 200 mW

## Product description:

The 635 nm red laser module is designed for applications requiring circular projection with a central point using a DOE optical element. The module is suitable for targeting, positioning, optical marking, inspection systems and integration into devices where a compact design, 5 V DC power supply and stable operating parameters are required.

## Technical specifications

- Wavelength: 635nm
  - Projection type: circle with a dot
  - Optical system: DOE, adjustable focus
  - Nominal optical power according to variant: 10 mW, 30 mW, 50 mW, 100 mW, 150 mW, 200 mW
  - The actual optical performance of each variant is shown in the table
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below.

- Operating mode: APC
- Supply voltage: 5V DC
- Working current: 280 mA
- Dimensions: D18 x 65 mm
- Housing material: aluminum, in some substrates brass/aluminum
- Lens material: PMMA
- Connector: 1m cable with DC connector 5.5 x 2.1 mm
- Operating temperature: -10°C to +40°C
- Storage temperature: -40°C to +85°C
- Mean time to failure: more than 8,000 hours

Rated power	Real optical performance
10mW	7.5 to 8.5 mW
30mW	18 to 24mW
50mW	38 to 45mW
100mW	75 to 95 mW
150mW	100 to 120 mW
200mW	130 to 150 mW

#### **Functions and features**

- Red laser module for visible projection at 635 nm
- The DOE optical element creates a circular pattern with a central point
- Adjustable focus allows projection to be tailored to a specific working distance
- APC and ACC operating modes support operation stabilization according to module design
- Compact cylindrical housing is suitable for installation in devices and assembly fixtures
- 5V DC power supply allows easy integration into low-voltage systems
- Long service life supports use in both industrial and laboratory applications

#### **Ideal for**

- Positioning and aiming systems
- Optical marking and marking
- Industrial fixtures and measuring stations
- Inspection and control equipment
- Laboratory and development applications
- Integration into machines and automation units

#### **Package contents**

- 1x laser module red 635 nm

#### **Why choose this product?**

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- Combination of compact dimensions and precisely defined optical projection
- Clearly specified wavelength of 635 nm and 5 V DC power supply
- Possibility to choose from multiple performance options according to application requirements
- Providing real performance values for more accurate technical assessment
- Suitable design for integration into technical and industrial systems

#### **Installation and operating instructions**

- When installing, ensure that the module is firmly attached and aligned correctly with the target surface.
- For proper operation, it is necessary to use a stabilized 5 V DC power supply.
- When adjusting the focus, we recommend adjusting at a working distance appropriate to the specific application.
- Operate the module within the permitted temperature range and ensure adequate heat dissipation.
- It is not recommended to exceed the specified electrical power supply and current load parameters.

#### **Safety notice**

- Laser radiation can be dangerous to your eyes
- Never look directly into the output beam or its reflection from shiny surfaces.
- Install the module so that the beam is not directed into the area where people move.
- When integrating into the device, the relevant safety regulations for laser devices must be observed.
- The product is not intended as a toy or for use by children.

#### **Product gallery:**



