

# Laser module, 1000mW, 405nm, dot

Reference: AM1845

EAN13: -

HS code: 90132000

## Product attributes:



## Product features:

Wavelength: 405 nm

Voltage: 3-5 V DC

Waterproof grade: IP20

Safety class (IEC 60825-1): 4

## Product description:

Laser module with focusable lens.

405nm wavelength

working voltage 4.5-5V

degree of protection IP20

CE, RoHS certificates

working temperature -10 - 40 °C

size 12x12x45 mm

cable length 150 mm

price for 1 pc

## Assembly

Caution, during assembly the laser module must not be conductively connected to any other metal part of another device **It must be conductively insulated.** Why is this so? In the vast majority of solid-state lasers, the laser diode is molded into a metal housing during manufacturing for better heat dissipation. Since one of the poles of the laser diode is fed to its housing, this pole is also on the heat sink. To make matters worse. A laser diode can be damaged by even a relatively small shutter voltage. Even when handling the laser itself, use antistatic agents.

TIP: In a worst case scenario, before handling, touch a radiator or water supply, for example, which is certainly grounded in your house. Any static voltage will be removed from your body. Avoid sweaters and similar types of clothing that can generate static electricity. Never connect the laser module conductively to another piece of metal.

## Cooling

This module does not require additional cooling. The laser has very little heat loss. Therefore, you do not have to worry about insulating the module and fitting it tightly into a stand. The laser will not overheat in this case and there will be no reduction in lifetime.

## Safety notice:

Avoid any beam striking the human or animal eye during operation. The laser is not safe for human health.

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