

## Laser Module

### VM-0520B-004M-AD-0A0

#### Features

- Uniform and detail-oriented
- No stripes & No noise
- Collimated beam
- Long distance indication
- Manual beam spot adjustment
- Low thermal resistance

#### Applications

- Teaching and scene guidance
- Infrastructure alignment
- Lighting for stage performance
- Medical and beauty application
- Indication and positioning

#### Description

This product VM-0520B-004M-AD-0A0 is integrated with imported and high-quality laser diodes and is shielding with copper for better heat dissipation.

Compared with traditional frequency doubles laser and LED, it enables to provide a higher peak power and lower power consumption, subtle wavelength shift with temperature and good reliability. It provides narrow emission angle without optical and thermal compensation, which allow various operation environments.

This product with laser diodes with small-sized, light, low price, long life, low power consumption, fast frequency response and manual beam spot adjustment.

It can be applied to infrastructure alignment, positioning, indication, inspection, machine vision and other fields for ideal visible laser source.



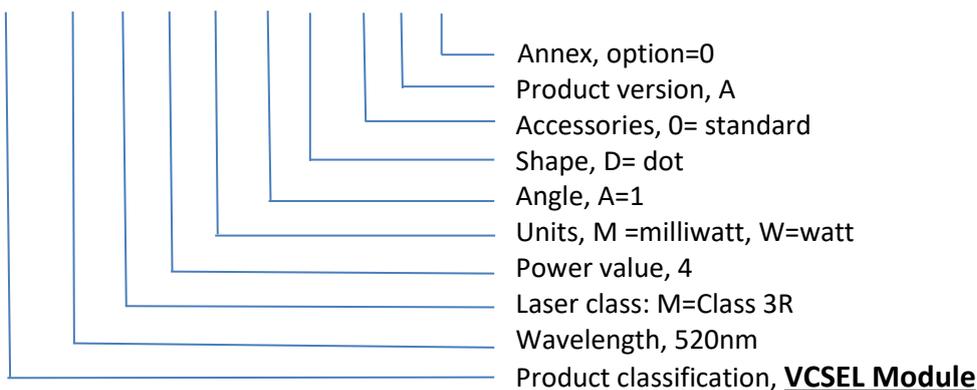
#### PRODUCT IDENTIFY

Part Number	Description
VM-0520B-004M-AD-0A0	520nm Class 3R Laser module

#### CODE RULES

VM- 0520 B-004 M- A D- 0 A 0

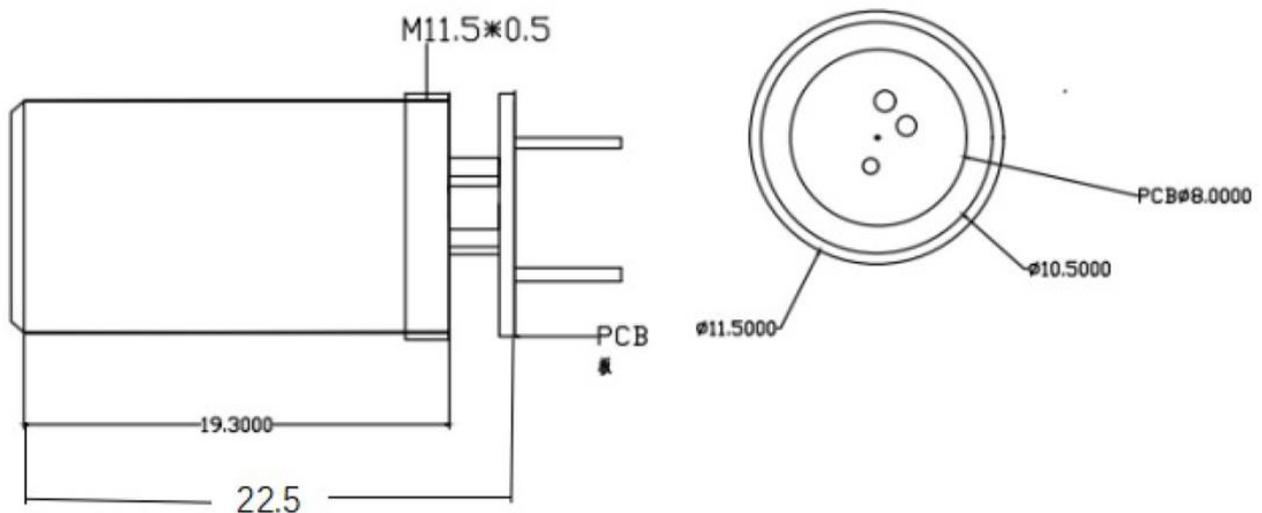
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩



## I. Specifications

Parameters	Typical values	Unit	Remarks
Beam Distance	500	m	-
Wavelength	520	nm	-
Optical power	4	mW	-
Operating current	4	mA	-
Power consumption	20	mW	-
Beam emission angle	≤0.8	mrad	-
Operating voltage	DC 5-6	V	-
Storage temperature	-40 to +80	°C	-
Operating temperature	-20 to +60	°C	-
Waterproof	IP20	-	-
Dimensions	M11.5(φ10.5) x L19.3	mm	-
Beam spot	dot	-	-
Beam spot dimensions	L40 x W0.5	mm	-
Lifetime	20000	Hrs	-
Anode	Red	-	-
Cathode	Black	-	-
Laser classification	Class 3R	-	Laser goggle when using
Weight	16	g	Customizable

## II. Mechanic schematic



### III. Laser Product Safety

The output power of this module is classified as class 3R, one can refer to IEC 60825-1:2014 《Laser Product Safety: Part 1:Devices classification, requirements and user's Manual》 .

### IV. Copyright Statement

This documentation is wholly owned by Brightlaser.,Ltd. Any one, any organization or third part may not partly or wholly copy, reproach the documentation. Otherwise, anyone can be prosecuted.

### V. Revision History

Revisions	Date	Description
V.01	26 June 2020	The first official version