Brighter532H

Single Longitudinal Mode DPSS Laser



Brighter532H lasers are ultra compact, continuous wave, diode-pumped all-solid-state of 532nm laser. Singlelongitudinal mode operation provides a narrow spectral bandwidth, low noise and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The Brighter532H lasers are intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for many applications. Available output power is upto 5W.

Unique Features

- Single-longitudinal Mode
- Low Noise: <0.4%
- High Reliability: <±1.2%
- Spectral Bandwidth: <2.5MHz
- Beam Quality: M² <1.2
- Long Lifetime

Applications

- Pumping Ti: Sapphire Lasers
- Biotechnology
- Holography
- Confocal Microscope
- DNA Sequencing
- Flow Cytometry
- Cell Sorting
- Raman Spectroscopy
- Photoluminescence
- Micro-material Processing
- Bio-instrument
- Precision Measurement
- Physics Experiments

Specifications

532 nm
CW
5W, 6W
TEM ₀₀
Single
<1.2±5%
<2.5 MHz
> 100 m
1.9±2%
1.0 mrad ±5%
> 95%
< 10 µrad
< 0.4% rms
<±1.2%
> 100:1
< 10Mhz/minuter
< 10 minutes
>10,000 Hours



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Utility and Environmental Requirements

Operating Voltage	220VAC/50Hz or 110VAC/60Hz
Power Consumption	< 600 W
Maximum Laser Head Baseplate Temp.	35°C
Ambient Temperature Operating Range	20°C ~ 30°C (Optimum 25-28°C)
Storage Temperature	-20°C ~ +70°C
Dimensions (LxWxH) of Laser Head	300 x 170 x 120 mm
Dimensions (LxWxH) of Power Supply	476 x 390 x 200 mm
Weight of Laser Head	15 Kg
Weight of Power Supply	25 Kg

Order Informatiom

Part No.	Output Power
Brighter532H-5	5 W
Brighter532H-6	6 W

Warranty

ATOP offers a limited warranty for all laser systems. ATOP diode-pumped solid state lasers are warranted to be free of defects in materials and workmanship for 12 months from the date of shipment. For full details of this warranty coverage of further products information, please refer to the Service and Support section at www.atoplaser.com, or contact your local Sales or Service representative.

Laser safety and electrical safety

Caution! Visible and invisible laser radiation is extremely dangerous. Avoid eye or skin exposure to direct radiation or diffuse reflection. Most ATOP laser systems fall into class III or class IV laser classification. Most laser systems utilize different level AC and DC voltage in both laser head and power supply. All ATOP products are designed in a compact package.

Notices

- 1. Due to our continuous product improvement program, specifications may change without notice.
- 2. Specifications apply to operation at the wavelength noted.
- 3. All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application, ATOP reserves the right to change at any time of a product offered for sale herein. ATOP makes no representations that the products herein are free from any intellectual property claims of others. Please contact ATOP for more information.



ATOP LASER, Inc. F17-02, No. 694 Xianyue Rd. Xiamen 361009 China Phone: +86-592-555 4690 Fax: +86-592-550 2082 E-mail: sales@atoplaser.com