

BWT Diode Pumped Solid State Green Laser



The BWT series is a self-contained, thermoelectric (TE)-cooled, diode-pumped, frequency doubled Nd:YVO₄ laser. The DPSS lasers can be operated over a wide temperature range, 0 to 40°C with a stable laser output power. The products are CDRH compliant systems. The combination of excellent beam characteristics, such as mode quality and low divergence, makes the lasers suitable for beam focusing, as well as long distance beam positioning. The end user power supply has all CDRH applicable safety features, such as key-lock switch, emission indicator, remote connector and optional TTL (or Analog) modulation input for up to 25KHz. Also available is the BWT-OEM versions designed for being a building block for OEM applications.

Highlights

- *End user and OEM versions*
- *Green (532 nm) at up to 100 mW output power*
- *Fiber coupling available*

Applications

- *Spectroscopy*
- *Metrology*
- *Wafer Inspection*
- *Printing*
- *Micro-material processing*
- *Medicine*
- *Particle counting*
- *Photoluminescence*
- *Signal transmission*
- *Pointing*

BWT

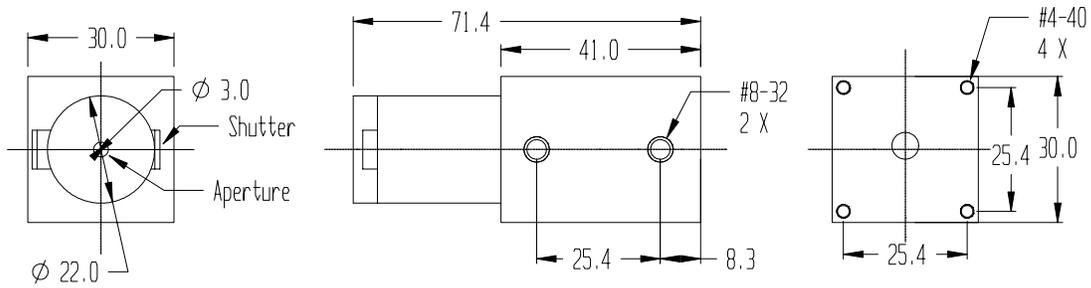
Specifications

End user version	-5E	-10E	-15E	-20E	-30E	-50E	-70E	-100E
OEM Version	-5-OEM	-10-OEM	-15-OEM	-20-OEM	-30-OEM	-50-OEM	-70-OEM	-100-OEM
Power Output (mW)	>5	>10	> 15	>20	> 30	>50	> 70	>100
Wavelength	532nm							
Mode	TEM ₀₀							
Power Stability	< +/-15%							
Spectral Linewidth	< 0.1 nm							
Beam Divergence	<1.2 mrad							
Operating Temp.	0 – 40 °C							
Polarization	>Linear 50:1 (45°, in reference to base plate)							
Beam Size (FWHM)	φ<1mm							
Warm-up Time	15 min							
Input Power	110VAC/60Hz							
Laser Head Dimension	30 X 30 X 66 mm							
Power Supply Dimension	55mmH X 105mm W X 170mm L							
Control (optional)	TTL or Analog Control Input with modulation speed up to 25 KHz							
Fiber Pigtail (optional)	Multi-mode or single mode fiber with SMA905 termination							
Opto-feedback (optional)	For better constant power operation (BWTF-series)							

*OEM Version: OEM modules contain laser heads and OEM drivers, and are non-CDRH compliant devices. These modules are sold as component into other equipments. The purchasers assume responsibility to comply with US 21 CFR 1040 with regard to the use of this laser and its introduction into commerce. B&W TEK may provide additional assistances to help customers achieve the required CDRH compliance

Dimensions

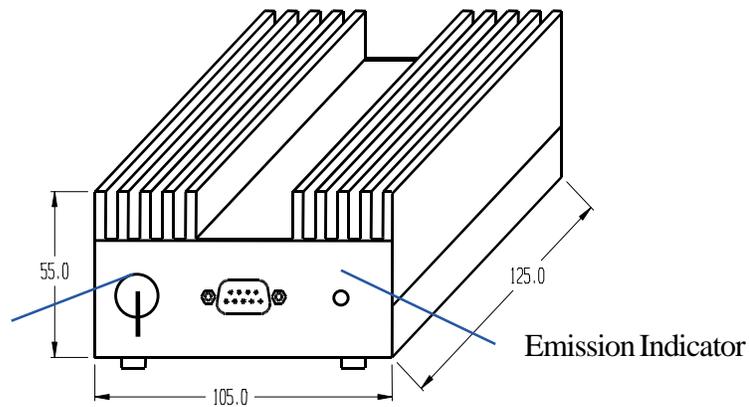
LASER HEAD



Remote Interlock

END USER DRIVER

Key switch



OEM DRIVER

