

BWTF Diode Pumped Solid State Green Laser With Opto Feedback Control

The BWTF 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 via optical feedback mechanism. The products are CDRH compliant systems. The excellent beam characteristics, such as mode quality and low divergence, make 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 BWTF-OEM versions designed for being a building block for OEM applications.

Highlights

- *End user and OEM versions*
- *Output power stability of better than +/- 3%*
- *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*



光技術をサポートする

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Specifications

End user version	-5E	-10E	-15E	-20E	-30E	-50E
OEM Version	-5-OEM	-10-OEM	-15-OEM	-20-OEM	-30-OEM	-50-OEM
Power Output (mW)	>5	>10	> 15	>20	> 30	>50
Wavelength	532nm					
Mode	TEM ₀₀					
Power Stability	< +/-5%					
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) $\phi < 1$ mm

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

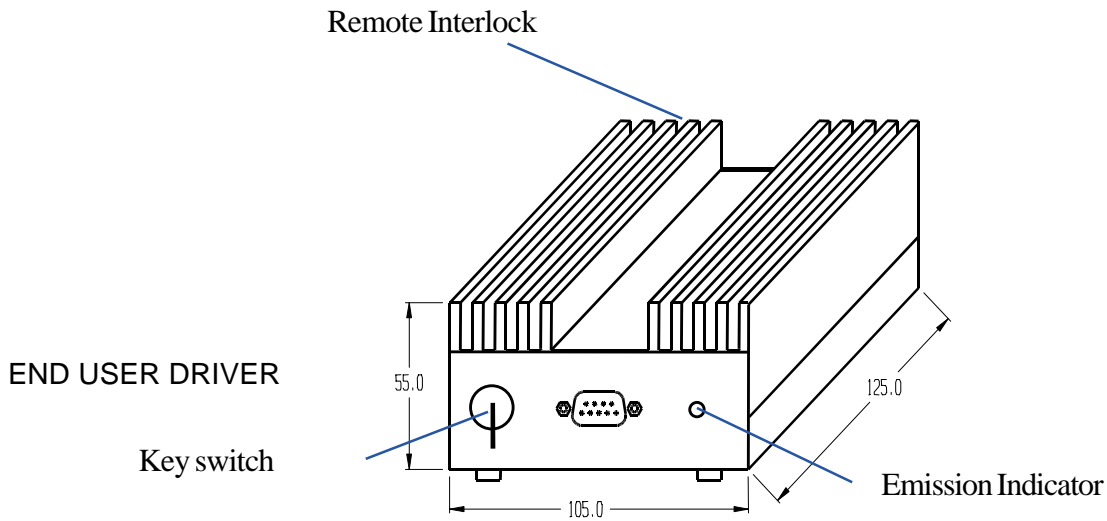
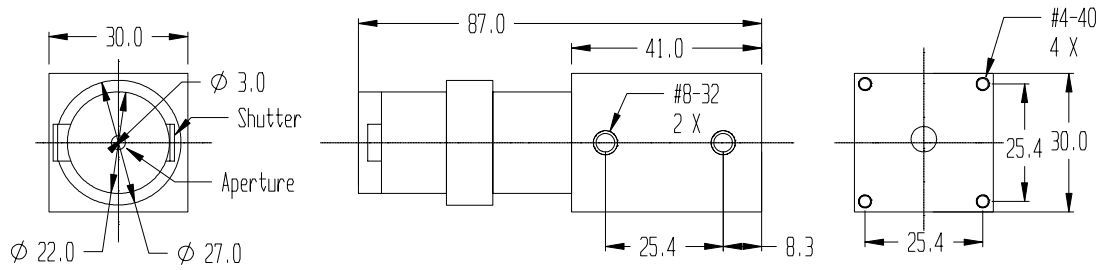
Control (optional) TTL or Analog Control Input with modulation speed up to 25 KHz

Fiber Pigtail (optional) Multi-mode or single mode fiber with SMA905 termination

*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



OEM DRIVER

