BWG Series Single Frequency Lasers

Laser Solution

The laser has a unique built-in output power control through the use of an input DC voltage for a fairly linear control. The spectral mode has been tested to be true single mode throughout the output power controlled range from 5-100% without any need for external optical attenuators.
The laser comes with built in isolator against specular reflections with better than 20 dB rejection power*. This greatly improves the stability of the laser operations.

Note: test condition used is with no polarization change in the reflected beam

Features

- TEM_{00} Beam Quality
- 10,000 Hours Statistical Lifetime
- Low Noise and Excellent Power Stability
- Flexibility in Integration into Custom OEM Systems
- TTL & Analog Modulation Available
- Contact Factory for Customization Options

Applications

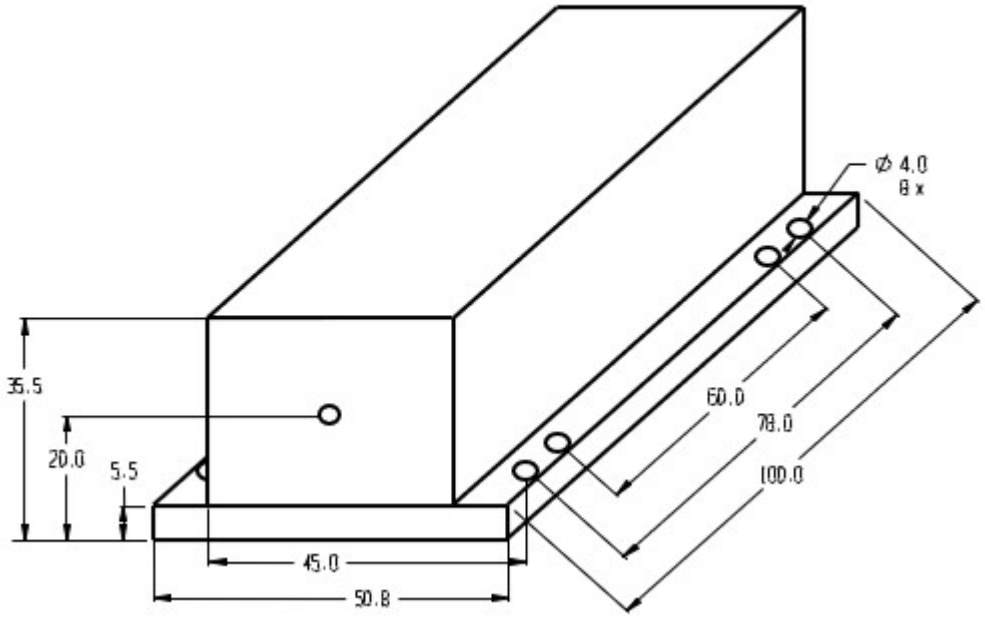
- Optical Trapping
- Material Processing
- Metrology
- Wafer Inspection
- Printing
- Medicine
- Particle Counting
- Photoluminescence
- Illumination
- Pointing
- Biological Instrumentation
- Spectroscopy
- Signal Transmission

Specifications:

Wavelength	532	nm
Spectrum width (FWHM)	1.0 typical	MHz
Power	20 / 50 / 100	mW
M2 x, M2 y	≤ 1.2, ≤ 1.2	
Beam size at exit aperture	≤ 0.8	mm
Beam divergence	≤ 1.5	mrad
Beam ellipticity	≥ 0.9	
Beam offset angle	± 5	mrad
Beam offset displacement	≤ 0.5(x)≤ 0.5(y)	mm
Power stability	~ 2%(Peak to Peak)	
Power Noise	~ 0.1%(RMS)	
Residual longitudinal mode	Better than 30 typical	dB

Dimensions:

Laser head



Laser driver