

1030nm DFB Laser Source

1. Description:

1030nm DFB laser source adopts butterfly semiconductor laser chip, professionally designed drive circuit and TEC control to ensure safe operation of the laser, stable output power and spectrum. Suitable as a pump laser source for fiber lasers or EDFA fiber amplifiers, it can be provided in a desktop or modular package.

2. Features:

- High output power;
- Power and spectral stability;
- Module or Benchtop package;
- Color LCD status display.



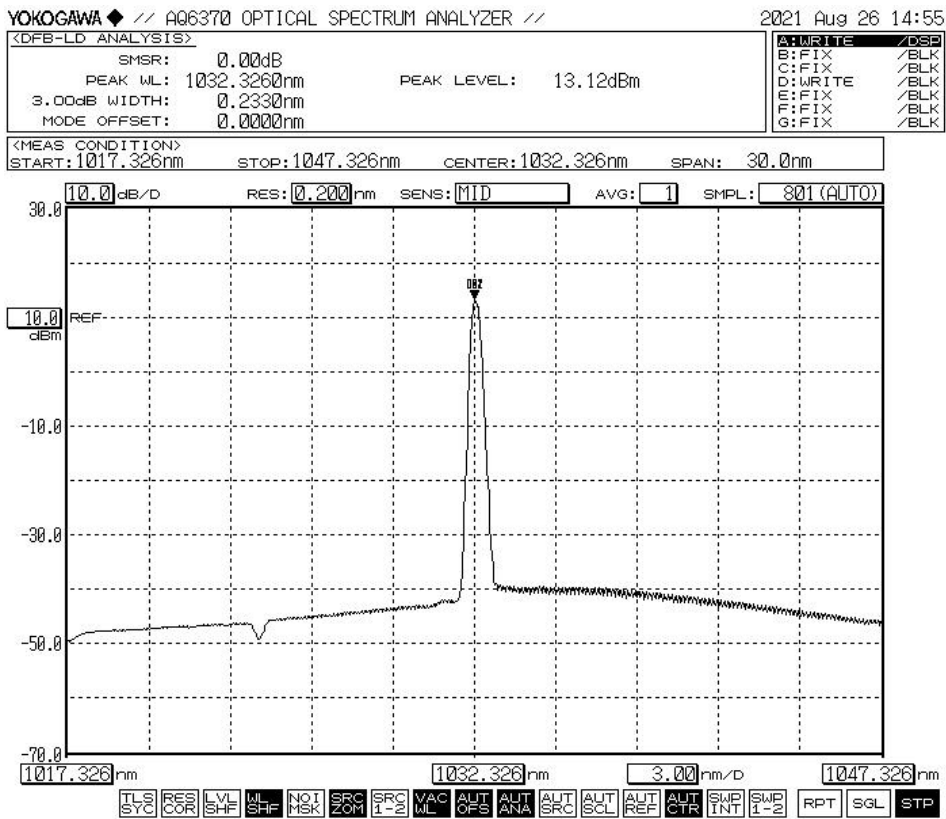
3. Applications:

- Fiber laser pumping;
- Erbium-doped fiber amplifier;
- Nonlinear optics research.

4. Electro-Optical Characteristics:

| Parameters | Unit | Values | Notes |
|---------------------------------------|------|----------------------|----------|
| Operating wavelength | nm | 1030 ± 3 | |
| Output power | mW | 50 | |
| Spectral width (FWHM) | MHz | 45 | |
| Operating current | | 200 | |
| Power instability (Short-term 15mins) | dB | ≤ ± 0.02 | |
| Power instability (Long-term 8hours) | dB | ≤ ± 0.05 | |
| Connector | - | FC/APC | |
| Fiber type | - | Hi1060/PM980 | |
| Dimensions | mm | 195(W)×220(D)×120(H) | Benchtop |
| | | 150(W)×125(D)×20(H) | Module |
| Power supply | V | AC 110~240V, <20W | Benchtop |
| | | DC 5V/4A, <15W | Module |
| Power dissipation | W | ≤ 60 | |
| Operating temperature | ℃ | -5 ~ +55 | |
| Storage temperature | ℃ | -40 ~ +85 | |

5. Typical Characteristical Curve:



6. Ordering information:

| Laser type | Wavelength | Output power | Fiber type | Connector | Dimension |
|-------------|--------------|--------------|-------------------------|------------|--------------------------|
| BLD | -XXX | -XX | XX | -XX | -XX |
| Fiber Laser | 1030: 1030nm | 50: 50mW | SM: Hi1060 PM: PM980 | FA: FC/APC | B: Benchtop M: Module |