

1653.7nm DFB Laser Source

1. Description:

1653.7nm DFB single wavelength laser source adopts DFB semiconductor laser chip, single-mode fiber output, professional design of driving circuit and TEC control to ensure the safe and stable operation of laser.

2. Features:

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



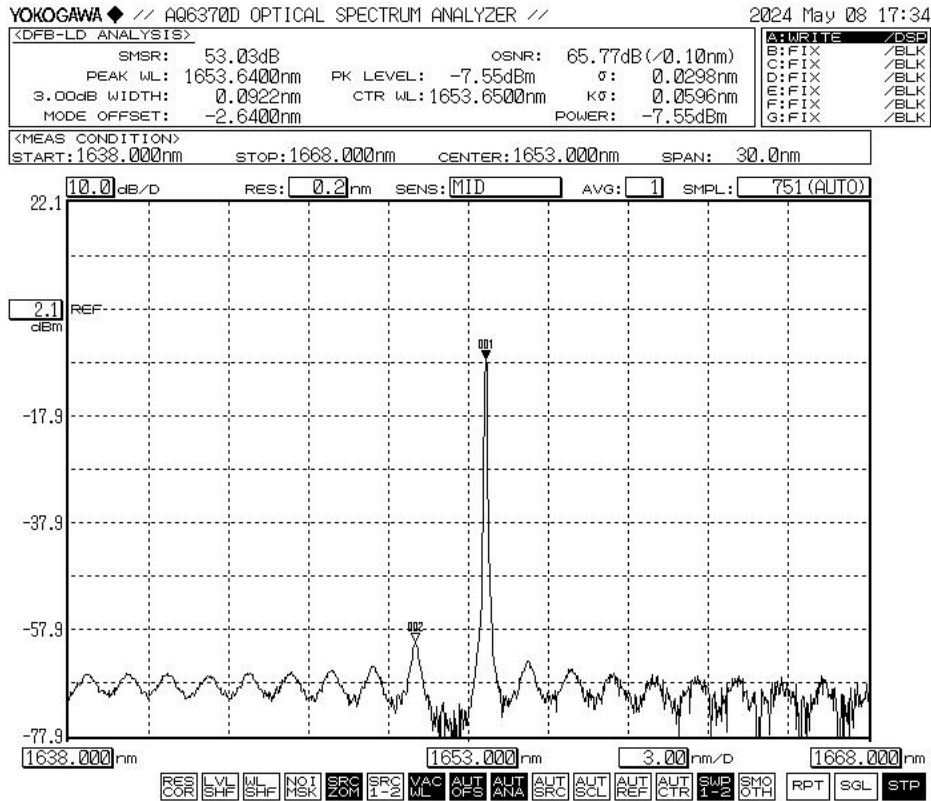
3. Applications:

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

4. Electro-Optical Characteristics:

Parameters	Unit	Values	Notes
Operating wavelength	nm	1653.7nm	+/-1nm
Output power	mW	10/40	
Side mode suppression ratio	dB	>30	
Optical isolation	dB	>30	
Power instability (Short-term 15mins)	dB	$\leq \pm 0.02$	
Power instability (Long-term 8hours)	dB	$\leq \pm 0.05$	
Connector	-	FC/APC	
Fiber type	-	SMF-28/PM1550	
Dimensions	mm	195(W) \times 220(D) \times 120(H)	Benchtop
		150(W) \times 125(D) \times 20(H)	Module
Power supply	V	AC 110~240V, <20W	Benchtop
		DC 5V/4A, <15W	Module
Power dissipation	W	≤ 60	
Operating temperature	$^{\circ}\text{C}$	-5 ~ +55	
Storage temperature	$^{\circ}\text{C}$	-40 ~ +85	

5. Typical Characteristical Curve:



6. Ordering information:

Laser type	Wavelength	Output power	Fiber type	Connector	Dimension
BLD	-XXXX	-XX	XX	-XX	-X
Fiber Laser	1653: 1653.7nm	10: 10mW 40: 40mW Other	SM: SMF-28e PM: PM1550	FA: FC/APC Other	B: Benchtop M: Module