

Multi-channel DFB Laser Source

1. Description:

The BOX desktop multi-channel DFB laser source can be used for wavelength division multiplexing (WDM) devices, waveguide grating array (AWG) components, planar light waveguide (PLC) components, optical fiber amplifiers (EDFA) and other general fiber optics measurements and applications, especially for mass production testing of couplers and planar light waveguide PLC components.

The light source module can provide two or four channels and multiple fixed wavelength light source output signals. Box can also customize light source equipment with any two or four wavelength combinations according to customer needs. The currently available light source wavelengths are 1030, 1064, 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625nm, 1650nm, 1683nm.

2 Features:

- Customizable DFB light source output laser and power of different wavelengths;
- Dual-channel, quad-channel or multi-channel optional;
- High output stability, small size, fast startup;
- Module or desktop package optional.

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3. Applications:

- WDM, AWG, PLC device differential loss, return loss detection;
- Fiber optic sensor, fiber optic cable measurement and detection;
- Laboratory R&D measurement application of fiber optics and communication optics.

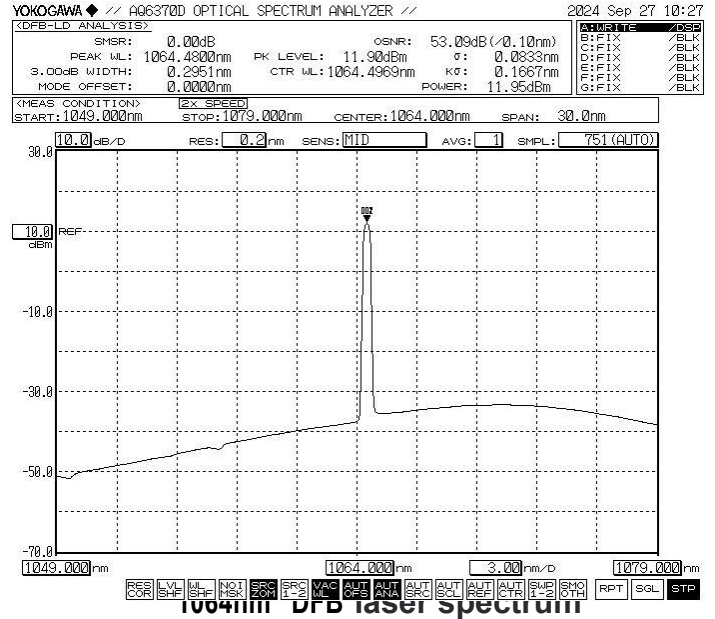
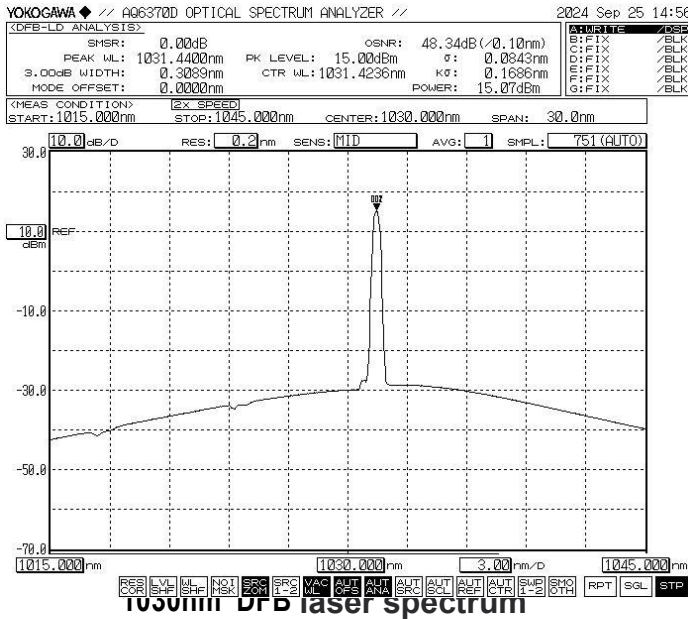
4. Electro-Optical Characteristics:

Parameter	Unit	Dual Channels	Four channels	Note
Work Wavelength	nm	1310/1550	1270/1290/1310/1330	customizable
Optional Wavelength	nm	1030、1064、1270、1290、1310、1330、1350、1370、1390、1410、1450、1470、1490、1510、1530、1550、1570、1590、1610、1625nm、1650nm、1683nm		DFB type
Output Power	mW	10-100		customizable
Spectral Linewidth	MHz	≤3		
Side Mode Suppression Ratio	dB	>30		
Working Mode	-	CW		
Power adjustment range	-	10~100%		

Short term stability (15 minutes)	dB	≤±0.02	Equivalent ≤±0.5%
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Long term stability (8 hours)	dB	$\leq \pm 0.05$	Equivalent $\leq \pm 1.2\%$
Connector	-	FC/APC	customizable
Fiber Type	-	Hi1060/SMF-28/PM1550	customizable
Package	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 consumption	W	≤ 60	
Operating temperature range	$^{\circ}\text{C}$	-5 ~ +55	
Storage temperature range	$^{\circ}\text{C}$	-40 ~ +85	

5. Typical spectrum:



6. Order Information

BFL	Wavelength	Output power	Fiber type	Connector	package
XXXX	-XXXX	-XX	XX	-XX	-X
BFL2: 2port	3064:1030, 1064nm	10: 10mW	SM: Hi1060/SMF- 28e	FA: FC/APC	B: Benchtop
BFL4: 4port	3155: 1310, 1550nm	20: 20mW	PM: PM980/PM1550	SA: SC/APC	M: Module
Other	other	40: 40mW 1H: 100mW Other		Other	