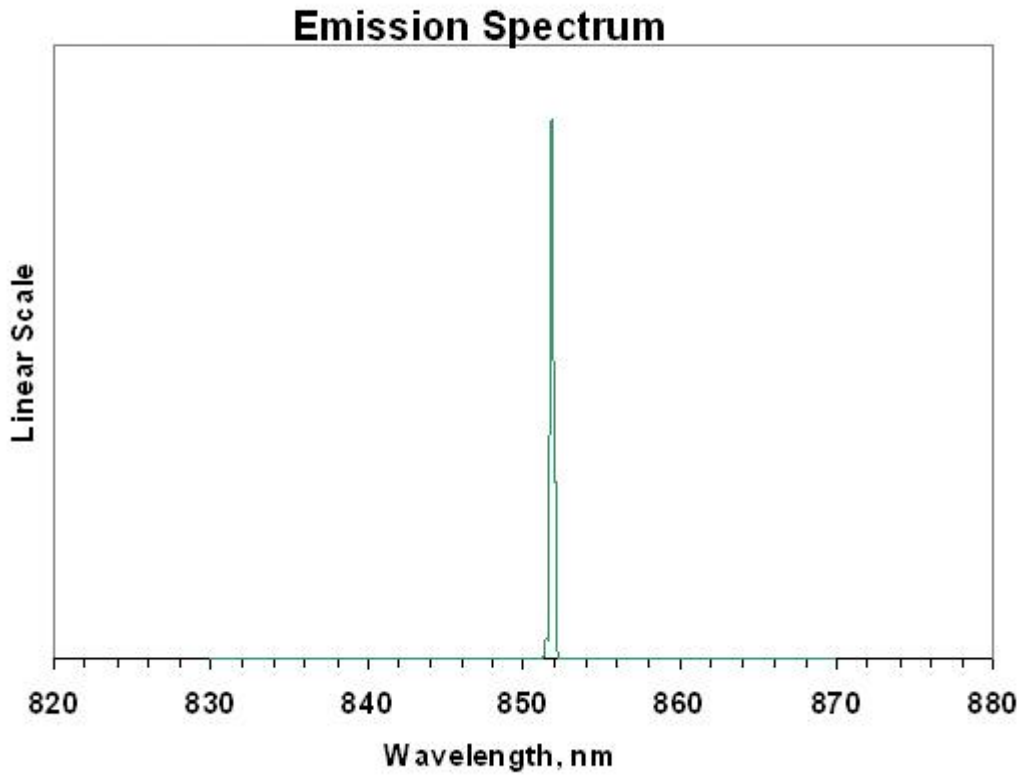
DFB Series 852nm DFB Laser Light Source

Product Description

The DFB series 852nm DFB laser light source adopts foreign high-performance DFB laser chips, uniquely designed ATC and APC circuits and isolation control to ensure extremely high power and wavelength stability. This light source is mainly used in the field of clock frequency measurement. It can be used with electro-optical modulators to load time frequency signals and transmit signals through optical fibers. It can also be used to measure optical devices in the 850nm band, such as high-speed Si-PIN/APD photodetectors. , CMOS, CCD and other devices' responsivity or response time testing.



Fiberlink (Wuhan) Photoelectric Technology Co., Ltd.
T+4008-237-236 | M+86 17771772785 | E sales@fiberlink.com.cn
Building 1, No. 12 Miaoshan East Road, Jiangxia District, Wuhan, Hubei Province, 430073 P.R China

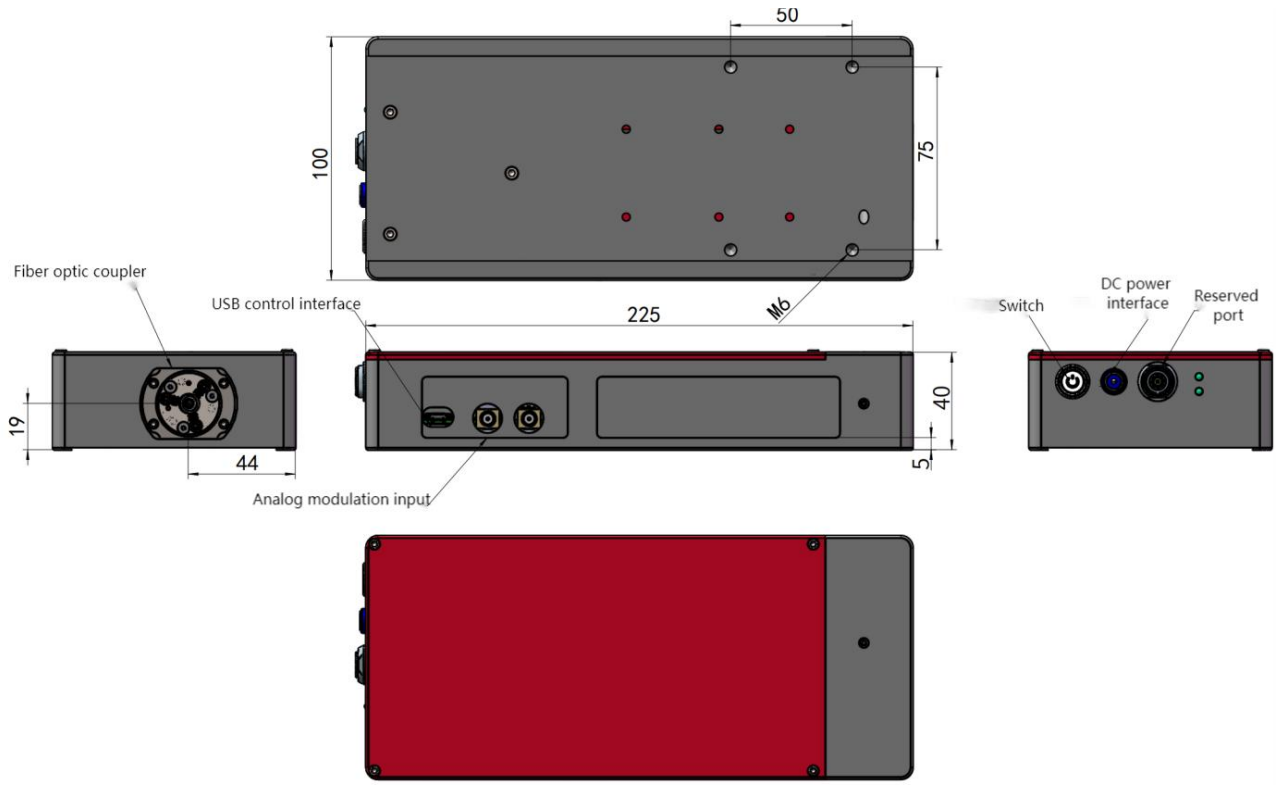
Features

- High output power optional.
- Built-in optical isolator.
- Module and desktop packaging are optional.

Applications

- 850nm optical fiber communication system
- Optical frequency comb
- Spectral analysis (Cs)
- Time frequency measurement
- Visible light detector testing system

Product Structure



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Performance Parameters

Parameters	Symbol	Minimum	Typical value	Maximum value	Unit
Working wavelength	I	840	850	853	nm
Output optical power	Po	-	50	-	mW
3dB spectrum width	DI*	0.1	-	2	MHz
Side mode suppression ratio	SMSR	30	45	-	dB
Relative noise intensity	RIN	-	-150	-140	dB/Hz
Power stability*	PSS	-	-	±0.005	dB/5min
	PLS	-	-	±0.01	dB/8h
Output terminal isolation	ISO	30	-	-	dB
Specification		Module			
Overall dimensions L x W x H		225×100×40 mm			
Power requirements		DC +5V			
Output fiber		5.5/125/250μm PMF			
Operating mode		CW			
Optical connector**		FC/APC			

Test conditions: CW, Top=25ºC.

For SC, LC, MU, and ST connectors, please contact sales staff.

Limit Conditions

Parameters	Symbol	Minimum	Typical value	Maximum value	Unit
Operating temperature	Top	°C	-5		55
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Ordering Information

DFB	852	X	XX	P	XX	XX
DFB	Wavelength: 852nm	Package: M—Module	Power: 10—10mW 50—50mW	Pigtail: P—PMF	Fiber optic connector: FP—FC/PC FA—FC/APC SP—User Specified	Line width: Empty—2MHz 01—1MHz