

DFB Lasers

Features

- ITU wavelength and high output power is optional
- Line width options: <10MHz, <1MHz, <200KHz
- Built-in optical isolator
- Multiple operating modes are available
- Module package、desktop package

Applications

- Laser distance measurement
- Seed light source
- Optical fiber communication
- Optical sensing system

Parameters



Parameter	Symbol	Min	Typ	Max	Unit		
Operating wavelength	λ	852/1064/1310/1550/1653/2000			nm		
Output optical power	P _o	-	13	16	dBm		
3dB spectral width	DI*	0.2	2	10	MHz		
SMSR	SMSR	30	45		dB		
Relative noise intensity	RIN		-160	-150	dB/Hz		
Power stability**	PSS			±0.005	dB/5min		
	PLS			±0.01	dB/8h		
Output isolation	ISO	30	35		dB		
Specification		Desktop		Module			
Dimensions L x W x H		320×220×90 mm		90×70×18 mm			
Power requirements		AC 220V ± 10% 30W		DC +5V GND			
Output optical fiber		SMF/PMF					
Operating mode		CW、internal modulation ,external signal modulation					
Optical connector		FC/PC , FC/APC or user specified					

ns-Pulse Lasers

Features

- The narrowest pulse is up to 3ns
- Pulse width is tunable
- Pulse repetition frequency is tunable
- Internal trigger and external trigger are optional
- Desktop and module package are optional
- Can be customized according to customer's requirements

Applications

- laser distance measurement
- Seed light source
- Optical fiber sending
- Passive device testing

Parameters

Parameter index	Min	Typ	Max	Unit
Central wavelength	851	852	853	nm
Peak pulse optical power	50			mW
Spectral line width		1	2	nm
Pulse width	3		100	ns
Light pulse repetition frequency	1		1000	KHz
Optical power stability	<1			%
Wavelength stability	<0.01			nm
Pulse width adjustment accuracy	1			ns
Pulse width adjustment step size	5			ns
Re-adjust the step size	5			KHz
Output optical isolation	30			dB
Optical fiber connector	FC/PC、FC/APC or user specified			
Optical fiber type	HI 780 or 62.5μm MMF			



Tunable Lasers

Features

- Wavelength tuning range
- Output power 10mw
- Narrow line width
- Internal locked of wavelength
- Remote control is available



Applications

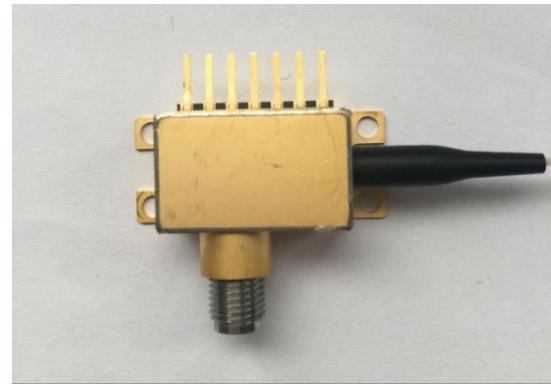
- WDM device testing
- Optical fiber sensing & OCT
- PMD and PDL testing

Parameter	Symbol	Min	Typ	Max	Unit
Wavelength	C-band	1524		1565	nm
	L-band	1560		1620	
Wavelength tuning range		40			nm
Channel spacing			50		GHz
Wavelength conversion speed			2		s
Wavelength accuracy		-1.5		1.5	GHz
Output optical power	Po	10			dBm
3dB spectral width	DI*		3	10	MHz
SMSR	SMSR	40	50		dB
Polarization extinction ratio	PEX	20			dB
Relative noise intensity	RIN		-145	-135	dB/Hz
Power stability **	PSS			±0.005	dB/5min
	PLS			±0.01	dB/8h
Power supply		AC 220V ± 10% 30W			
Output optical fiber		PMF			
Optical connector		FC/PC, FC/APC or user specified			

Broadband Analog Direct-Modulation Lasers

Features

- Wavelength options: 1310nm、1550nm、DWDM
- Bandwidth options: 6/10/18GHz
- Output power options: 8/10mW
- Excellent RF flatness
- Wide dynamic range
- Entire transparent work



Applications

- Remote antenna and phased array
- Long-distance analog optical fiber communication
- Military three wave communication
- Tracking telemetry and control

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Threshold current	I _{th}	CW	-	-	25	mA
Operating current	I _{op}	CW	-	-	100	mA
Input impedance	Z _{in}	IF=I _{op}	-	50	-	Ω
Thermistor	R _T	@+25°C	9.5	10	10.5	kΩ
Thermistor temperature coefficient		@+25°C	-	-4.4	-	%/°C
Output optical power	P _F	CW, IF=I _{op} ,		10		mW
SMSR	SMSR	CW, IF=I _{op}	35	-	-	dB
Relative noise intensity	RIN	100MHz-3GHz		-150		dB/Hz
Monitor current	I _M	-	10	-	200	uA/mW
Optical isolation		-	30			dB
Input 1dBpower compression point	P _{1dB}		15			dBm

EA Modulation Lasers

Features

- Low drive voltage: <2.5V
- High bandwidth: >10G, >40G (optional)
- High extinction ratio: 10dB
- Module package desktop package

Applications

- 10Gbps high-speed optical fiber communication system
- 40Gbps high speed optical fiber system
- Microwave photonics



Parameter	Symbol	Min	Typ	Max	Unit		
Central wavelength	λ_C	1530	-	1564	nm		
Output average light power	Pavg	-4	0		dBm		
3dB spectral width	D1		2	10	MHz		
Wave stability				0.01	nm		
SMSR	SMSR	30	45	-	dB		
Power stability **	PSS			± 0.005	dB/5min		
	PLS			± 0.01	dB/8h		
Modulation drive voltage	Vpp		2.0	2.5	V		
3dB bandwidth	EAS-10	BW	10	12	-		
	EAS-40		32	35	GHz		
Dynamic extinction ratio	ER		9	10	dB		
Specification		Desktop		Module			
Dimensions	LxWxH	320×220×90 mm		90×70×18mm			
Power requirement		AC 220V ± 10 % 30W		DC +5V GND			
Input signal interface		SMA(f) / V(f)					
Output optical fiber		Single mode fiber smf-28					
Output optical interface		FC/PC FC/APC or user specified					

ASE Broadband Light Source

Features

- Well power stability
- Low degree of polarization output
- Intelligent microprocessor control
- Well average wavelength stability

Applications

- Spectral analysis and biomedical imaging
- Biomedical imaging
- Optical fiber sensing system
- Optical gyroscope testing



Parameter		Min	Typ	Max	Unit		
Operating wavelength	C	1525	-	1565	nm		
	L	1570	-	1610			
	C+L	1525		1610			
	1060	1030		1090			
Output power			10/13/17/23		dBm		
Power spectral density		-20		-2	dBm		
Power stability	15min @ 23°C	2.0	3.0	5.0	%		
	8h@ 23°C	-	0.01	0.02	dB		
3dB spectral width		37	40	42	nm		
Spectral flatness			1.5	2	dB		
Specification		Desktop		Module			
Dimensions L x W x H		320×220×90 mm		90×70×18mm			
Power requirement		AC 220V ± 10% 30W		DC +5V GND			
Optical fiber type		SMF-28 or PMF					
Connector type		FC/PC、 FC/APC or user specified					

SLED Broadband Light Source

Features

- Low degree of coefficient
- High power stability
- Excellent spectral flatness
- Module mode desktop are optional

Applications

- Optical fiber sensing system
- Passive device testing production and testing
- Light test instrument

Parameters

Parameter	Typical				Unit			
Central wavelength	850	1310	1550	1250~1650	nm			
FWHM spectral width	>30	>45	>55	>400	nm			
Output optical power	>3	>1	>0.5	>5	mW			
Spectral wave	<0.2	<0.2	<0.2	<0.2	dB			
Spectral stability@15 min	$\leq\pm0.05$				dB			
Short-term stability@15 min	$\leq\pm0.01$				dB			
Long-term stability@8hour	$\leq\pm0.03$				dB			
Operating mode	Continuous、Internal modulation、external modulation							
Specification	Desktop	Module						
Dimensions L x W x H	320×220×90 mm		90×70×18mm					
Power supply	AC 220V ± 10% 30W		DC +5V GND					
Output optical fiber	SMF/PMF							
Optical light connector	FC/PC FC/APC or user specified							

