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L-Band High Stability ASE Light Source

Description

The L-band ASE light sources of Idealphotonics Laser employ optimized Er-doped fiber laser and realize output laser which are featured by wide spectral， high output power and extremely high stability of the output power within the whole temperature range. The L-band ASE sources of Idealphotonics Laser have extremely high spectral flatness.

The L-band ASE light sources of Idealphotonics Laser are highly integrated system sources. The benchtop sources uses high-definition LCD which displays the current and voltage synchronously and have continuously tunable output power; suitable for scientific research and manufacturing testing. In addition, Idealphotonics Laser can provide compact module package for system integration.

Feature

- L-Band, bandwidth
- SM fiber output
- Output power adjustable
- High flatness
- High stability and high reliability

Application

- Components test
- Optical fiber sensor system
- Fiber optic gyroscope
- Spectrum Analysis
- Other lab applications

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Specification

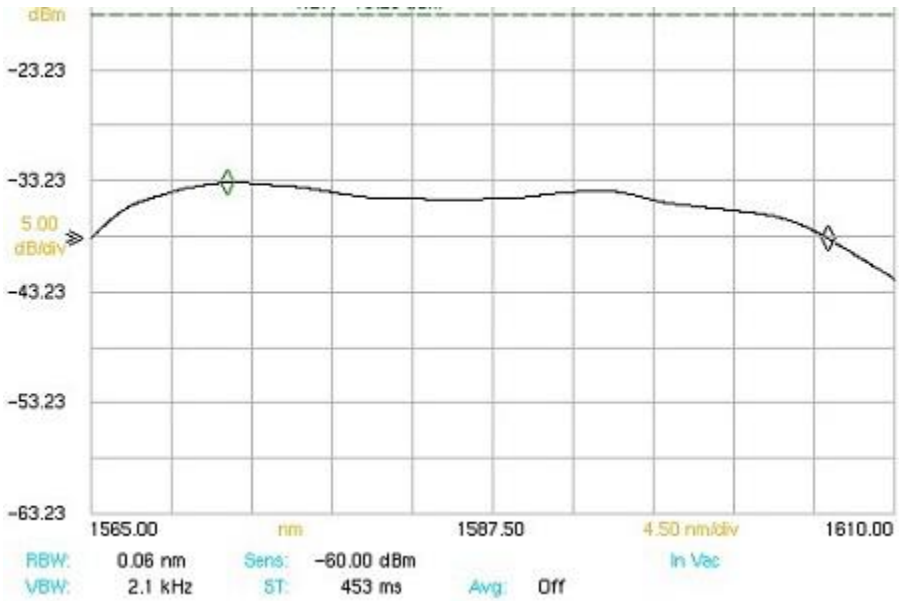
Parameter	Unit	Specifications		
		Min	Typ.	Max
Part No.		IDP-L-B：SM	IDP-L-B：PM	
Output power[1]	mW	10	-	100
Operating wavelength range	nm	1570	-	1602
Spectral width（FWHM）	nm	-	32	-
Spectral flatness（Standard）	dB	-	-	3.5
Spectral flatness（Gain Flatness）	dB	30	35	-
Output isolation	%	-	±0.5	±1.0
Stability of output power（15min）[2]	%	-	±1.0	±2.0
Stability of output power（8h）[2]	%	0	-	100
Output power operating range		caorse/fine adjustment		
Output power operating mode	VAC	170	220	260
Operating voltage	W	-	-	20
Power consumption[3]	℃	0	-	50
Operating temperature	℃	-40	-	85
Storage temperature		SMF 9/125um NA=0.13		
Output fiber type（Single mode）		Panda 1550 NA=0.13		
Output fiber type（PM）	dB	> 17（PM output fiber）		
Polarization extinction ratio（PER）	m	> 1		
Length of output fiber		FC/APC(other options available)		
Output fiber connector	mm	270(L)×235(W)×105(H)		

1. Output power is optional, typical output power: 10mW、20mW、30mW、100mW；

2. The output power stability is measured under 25℃，30 minutes after warm-up；

3. The max power consumption refers to the consumption under extreme temperature conditions.

Spectrogram：



Ordering Information：

IDP-L-P-<PW>

IDP-L-P-<PW>

P:package, B:Benchtop ,M:Module

PW:output power in mW, example:20-20mW, 100-100mW