

1.0um Amplified Spontaneous emission (ASE)Broadband Light Sources



Description

The 1.0um high-stability ASE light sources of Idealphotonics Laser are a broadband light sources based on Er-doped all-fiber structure. They are ideal sources for test, measurement and spectral analysis, with stable output power and high-flatness spectrum.

The 1.0um high-stability ASE light sources of Idealphotonics Laser are a highly integrated system source. The benchtop sources use high-definition LCD which displays the current and voltage synchronously and has continuously tunable output power; suitable for scientific research and manufacturing testing. In addition, Idealphotonics Laser can provide compact module package for system integration.

Feature

- Single mode output
- Wide bandwidth
- High output power
- High stability and high reliability

Application

- Test and measurement
- Optical fiber sensor system
- Optic coherence tomography
- Spectrum Analysis
- Other lab applications

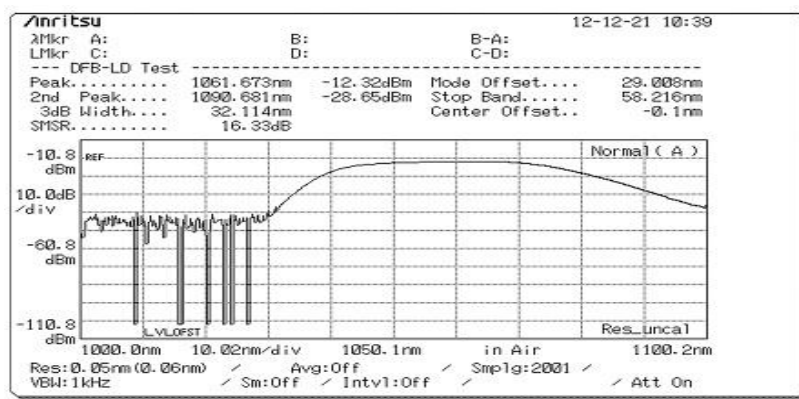
Specification

Parameter	Unit	Specifications		
		Min	Typ.	Max
Part No.		IDP-Yb-B: SM IDP-Yb-B: PM		
Output power ¹	mW	10	-	100
Operating wavelength	nm	1035	-	1080
Spectral width (FWHM)	nm	-	45	-
Spectral flatness (Standard)	dB	-	4	-
Spectral flatness (Gain Flatness)	dB	-	2	5
Output isolation	dB	30	35	-
Stability of output power (15min) ²	%	-	±0.5	±1.0
Stability of output power (8h) ²	%	-	±1.0	±2.0
Output power operating range	%	0	-	100
Output power operating mode		Coarse /fine		
Operating voltage	VAC	170	220	260
Power consumption ³	W	-	-	20
Operating temperature	°C	0	-	50
Storage temperature	°C	-40	-	85
Output fiber type (Single mode)		SMF 6/125um NA=0.13		
Output fiber type (PM)		Panda 980 NA=0.13		
Polarization extinction ratio (PER)	dB	> 17 (PM output fiber)		
Length of output fiber	m	> 1		
Output fiber connector		FC/APC(other options available)		
Dimension	mm	270(L)×235(W)×105(H)		

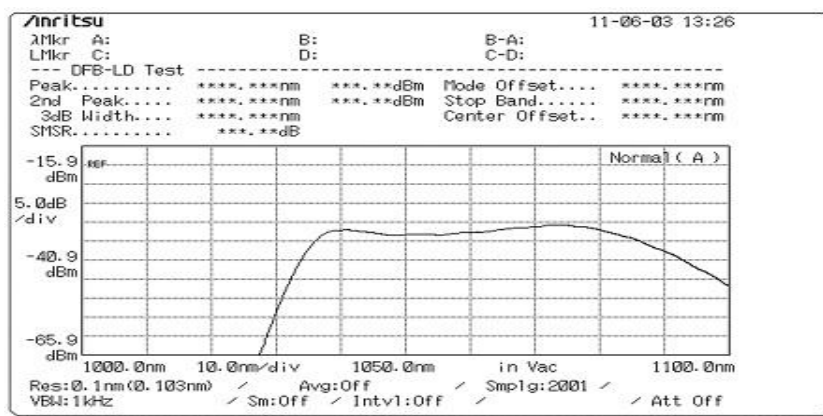
1. Output power is optional , typical output power: 10mW、20mW、50mW、100mW;
2. The output power stability is measured under 25°C , 30 minutes after warm-up;
3. The Max power consumption refers to the consumption under Extreme temperature conditions.

Spectrogram :

Standard:



Gain Flatness:



Ordering Information :

IDP-Yb-B-<PW>-<FL> IDP-Yb-B-<PW>-<FL>

B:Benchttop

PW:Output power in mW , example:30-30mW, 50-50mW

FL:Spectral flatness 1-Standard, 2- Gain Flatness