1083nm DFB Light Source

Description

Idealphotonics'stabilized DFB lasers are high output power, narrow linewidth light sources with high side mode suppression ratios. They are available at any customer-specified wavelengths and any ITU wavelength in the S, C, L bands at for optical sensing applications. DFB Laser are available in benchtop or OEM module. In the benchtop unit, the output power , alarms and driving current values are shown on the LCD display. Output power can be adjusted by tuning the front panel control knob. Also active emission button is used to enhance operation safety. 1MHz intensity modulation is also available. The OEM module version is an ideal building block for OEM system integrators, especially in fiber optic sensing applications.

Feathure

Wide wavelength coverage
High output power
Good wavelength stability
Compact size
Good performance cost ratio
Two year warranty

Application

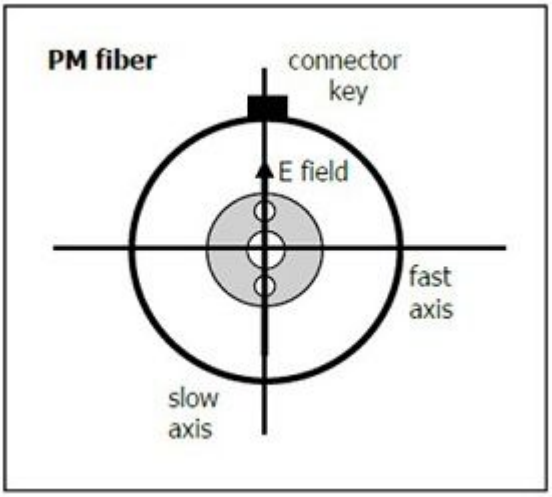
Optical component testing
Pump laser for Helium
Spectroscopy
Research & development

Specification

Parameters	Unit	Specification

		Min	Typ	Max
Part NO.		IDP-1083-B-DFB		
Output power	mW	-	30	-
Central Wavelength	nm	1082	1083	1085
Spectrual width（FWHM）with FBG	MHz	-	2	10
SMSR	dB	30	45	-
Polarization Extinction Ratio(PER)	dB	20	-	-
Output power stability（15min）[2]	%	-	±0.1	±0.5
Output power stability（8hours）[2]	%	-	±0.5	±1.0
Output power adjustable range	%	0	-	100
Output power Adjustable Mode		Coarse/Fine		
Power supply	VAC	170	220	260
Power consumption[3]	W	-	-	5
Operation temperature	℃	0	-	50
Storage temperature	℃	-40	-	85
Output fiber type		Panda 6/125um NA=0.13		
Lengh of the output type	m	> 1		
Optical connectors		FC/APC		
Dimension	mm	270(L)×235(W)×105(H)		

1.The central wavelength can be Customized；
2.The test condition of the power stability is 25℃，30mins Warming up；
3.The bigest power consumption tested under the extreme condition。



Ordering information

IDP-1083-B-DFB-<PW>-<SP>

B：Benchtop

PW：output power,unit:mW.eg：10-10mW，50-50mW

SP：Output isolator 0-without, 1-with