

1480nm High-Power Benchtop Single-Mode Pump Source 500mW



● Product Description

IdealPhotonics' 1480nm high-stability single-mode pump light source uses a single-mode semiconductor laser with an FBG wavelength-stabilized grating, which has a stable wavelength and high output power. The control system based on advanced microprocessors, combined with high-precision ATC and ACC (APC) control circuits, achieves high-stability output of the laser, while ensuring that the light source is quick and intuitive to operate. We can also provide corresponding communication interfaces and control software according to user requirements to achieve computer control. This light source uses the Turn-Key pump laser protection function to effectively

prevent customers from operating it incorrectly. The power can be roughly adjusted (stepped by 50mW) or finely adjusted by 0.1mW. IdealPhotonics' 1480nm single-mode pump light source is a highly integrated desktop system light source with a high-definition LCD display, continuously adjustable output power, and synchronous display of current and voltage, which is very suitable for experimental scientific research and production testing. In addition, the company can also provide modular packaging according to user requirements to facilitate system integration.

● Product features

Single-mode high-power output: up to 500mW、 FBG grating wavelength locking, no drift、 ASE optical isolation protection design、 Stable and continuously adjustable output power、 LCD status display、 High-precision ACC and ATC control circuits、 Optional built-in isolator

● Part Number

MP-FP-1480-500-B-0-SA

● Application area

Pump laser、 Dense Wavelength Division Multiplexing (DWDM)、 Compact packaged EDFA、 High bit-rate, high-channel-count EDFA、 Cable television distribution



● Core parameters

Wavelength	Power	Spectral Width
1480nm	500mW	0.8nm

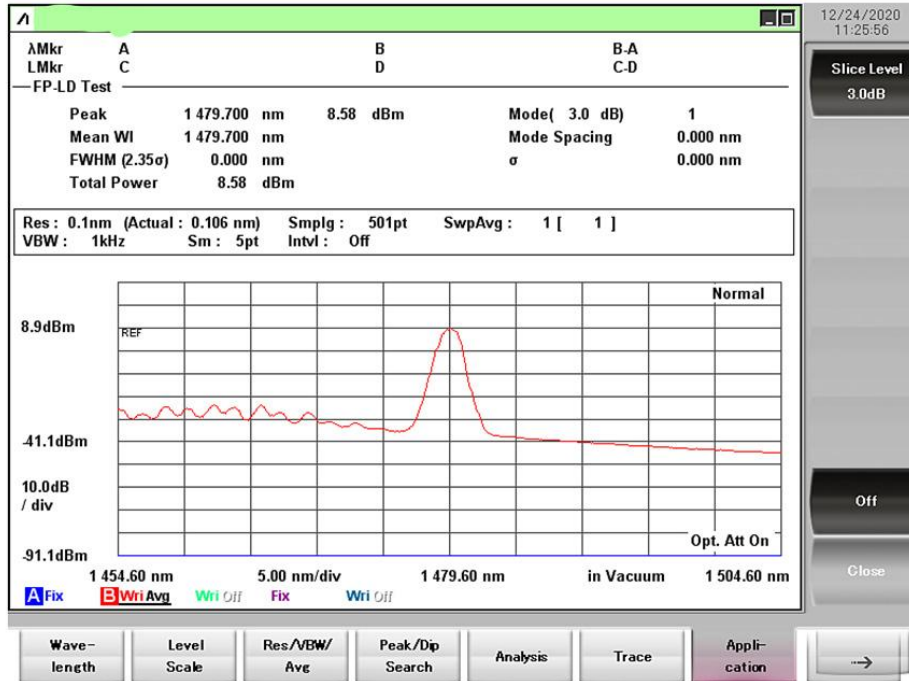
● General Parameters

Parameters

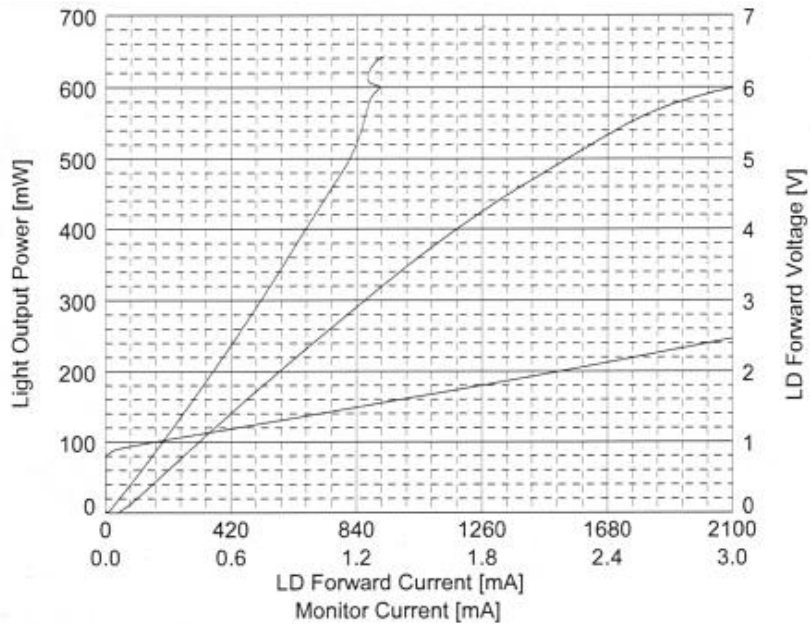
Technical Specifications	Unit	Specs		
		Min.	Typ.	Max.
Operating Wavelength	nm	1479	1480	1481
Output Power	mW	0-500 continuously adjustable		
Operating Current	mA			2100
Spectral Width (FWHM) with FBG	nm	-	0.8	
Output Power Stability (15 minutes)	%		±0.5	±1.0
Output Power Stability (8 hours)	%		±1.0	±2.0
Output Power Adjustable Range	%	0		100
Output Power Adjustment Mode	%	Coarse/Fine adjustment		
TEC Stability	°C		±0.1	±0.2
Operating Voltage	VAC	100	220	240
Operating Temperature	°C	0		50
Storage Temperature	°C	-40		85
Output Fiber Type and Connector		SMF28E, FC/APC, other models optional		
Dimensions	mm	340(L) × 240(W) × 100(H) Benchtop		



Spectrum

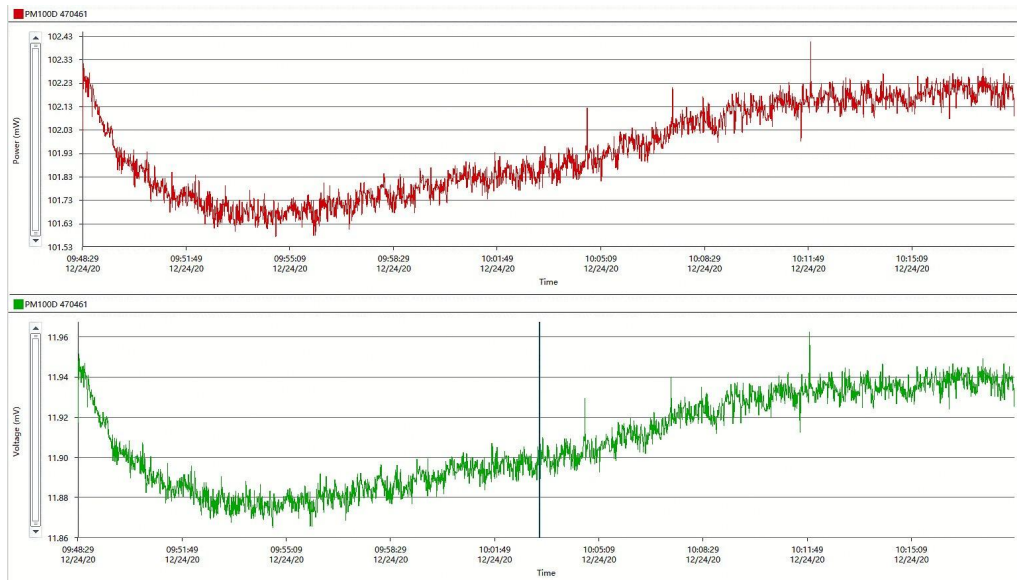


Power Curve





Power Stability Curve



Ordering info

MP-FP-1480-500-B-0-SA

Operating Wavelength:

1480:1480nm

Packaging Type:

B: Benchtop

Output Power:

500:500mW