1550nm High Power Single Mode Fiber Laser

3W

Product Description

With optimized optical properties, 1550nm single-mode DFB is an ideal choice for demanding sensing system applications. The innovative chip design has suppressed high-order longitudinal and transverse modes while maintaining linear polarization stability. The laser has high output power (Max. 50W output), narrow line width and good consistency, and is currently favored by domestic scientific research customers. At present, our existing inventory wavelengths cover 1000-2400nm. For certain specific areas of use of customers, we can provide customers with customized chip screening services.

Product features

Ultra-narrow linewidth: <10MHz、 Mode-hop-free、 High stability and reliability、

Output power continuously adjustable, LCD status display

Part Number

MP-FLS-1550-B-3-SA

Application area

LAN/WAN communication system、 CATV System、 Test Measurement、 Other scientific research

Core parameters

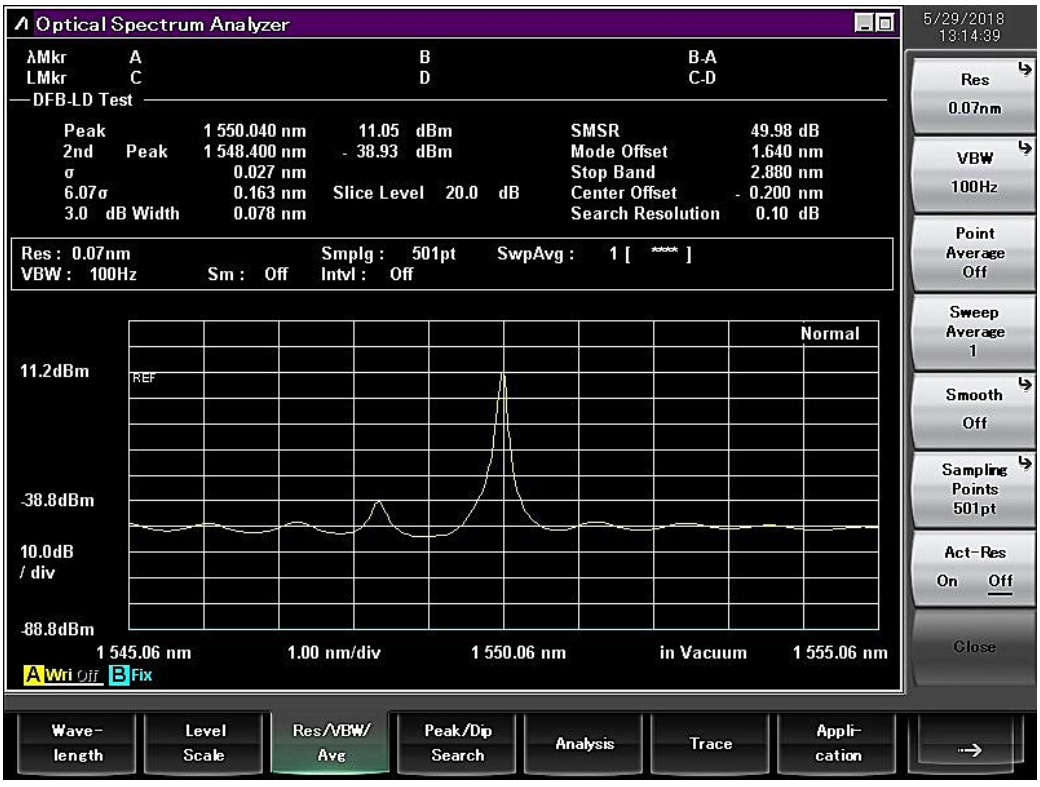
Wavelength	Output Power	Fiber Mode
1550nm	3W	SMF-28e

General Parameters

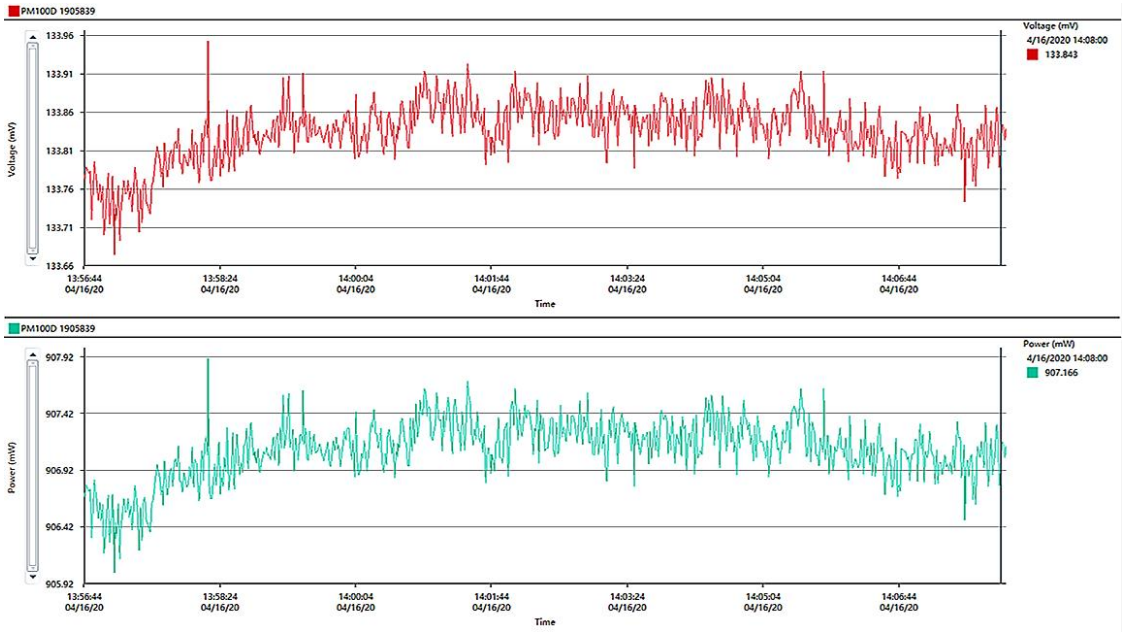
Technical Parameters		Unit	Technical indicators		
			Min	Type	Max
Peak operating wavelength		nm	-	1550	-
Output Power	Single Mode	w	-	10	50
	Polarization Maintaining	w	-	10	20
Output side mode suppression ratio (SMSR)		dB	20	25	35
Output Polarization Extinction Ratio (PER)		dB	20	-	-
Output power stability (15 minutes)		%	-	±0.1	± 0.5
Output power stability (8 hours)		%	-	±0.5	± 1.0
Output power adjustable range		%	10	-	100

Technical Parameters		Unit	Technical indicators		
			Min	Type	Max
Output power regulation mode			Coarse adjustment / fine adjustment		
Operating voltage		V	170	220	260
Operating temperature		℃	0	-	35
Storage temperature		℃	-40	-	85
Output fiber type	Single Mode	W	SMF-28e@<10w		
	Polarization Maintaining	W	PM 9/125um @<10w		
Output fiber length		m	>1		
Output fiber connector			FC/APC		
Specifications and dimensions		mm	Rack can be customized		

Spectrum



Power stability analysis



Beam quality analysis