

1550nm High Power PM Fiber Laser 10W



● Product Description

With optimized optical characteristics, the 1550nm single-mode DFB laser has become the ideal choice for high-demand sensor system applications. The innovative chip design suppresses higher-order longitudinal and transverse modes while maintaining linear polarization stability. The laser offers high output power (up to 50W), narrow linewidth, and excellent consistency, making it highly favored by domestic research customers. Currently, we have stock covering wavelengths from 1000nm to 2400nm. For certain specific customer applications, we can provide custom chip selection services.

● Part Number

LP-1550-B-10-1-PA

● Product features

Ultra-narrow linewidth: <10MHz 、 No mode hopping 、 High stability and reliability、 Continuously adjustable output power, with LCD status display.

● Application area

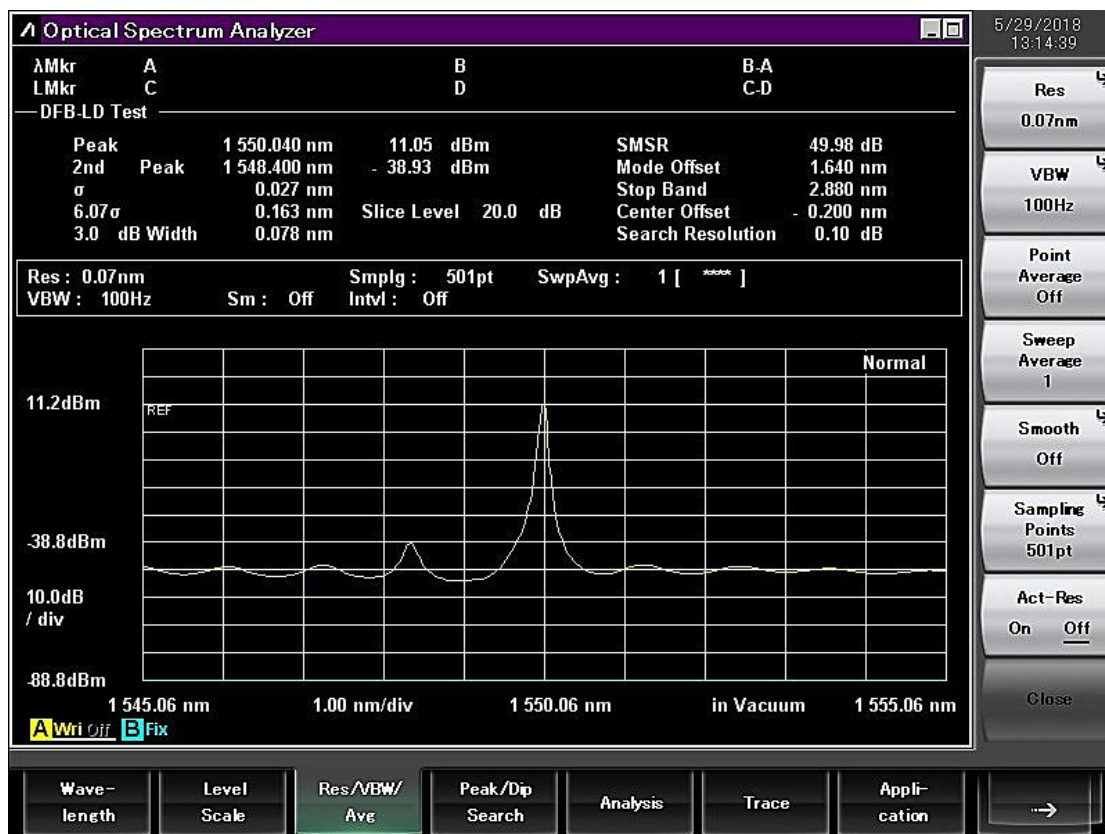
LAN/WAN communication systems、 CATV systems、 Test and measurement、 Other scientific research

Parameters

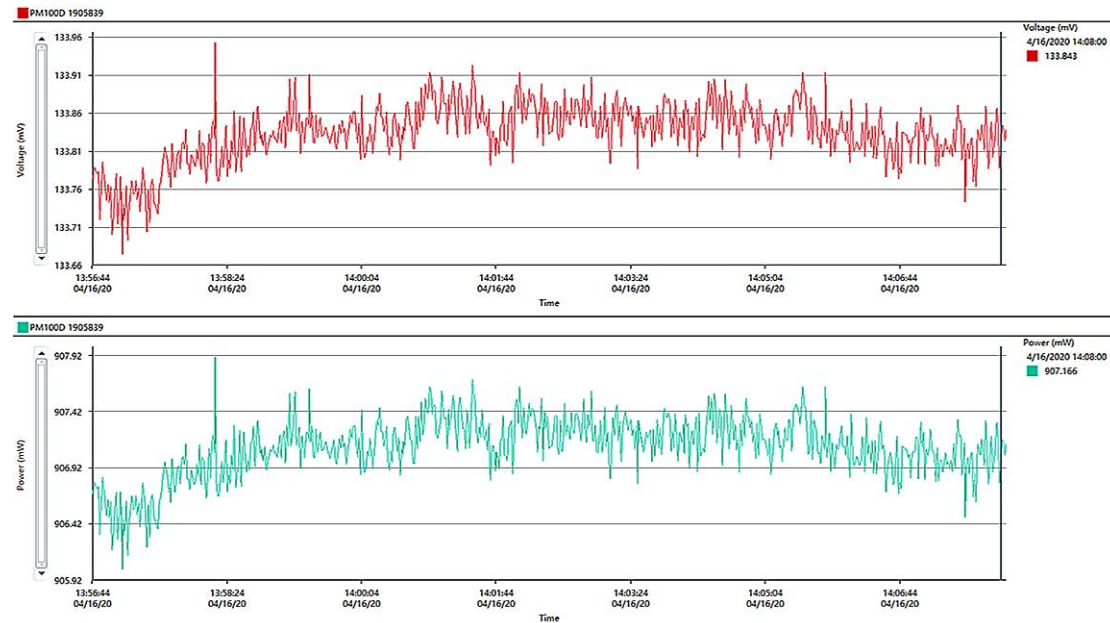
| Parameters | | Min. | Typ. | Max. | Unit |
|--|----|-------------------------|------|------|------|
| PN# | | LP-1550-B-2-1 | | | |
| Peak operating wavelength | | - | 1550 | - | nm |
| Output power | SM | - | 10 | 50 | W |
| | PM | - | 10 | 20 | W |
| SMSR | | 20 | 25 | 35 | dB |
| Output polarization extinction ratio (PER) | | 20 | - | - | dB |
| Output power stability (15 minutes) | | - | ±0.1 | ±0.5 | % |
| Output power stability (8 hours) | | - | ±0.5 | ±1.0 | % |
| Output power adjustment range | | 0 | - | 100 | % |
| Output power regulation mode | | Coarse/ Fine adjustment | | | |
| Operating voltage | | 170 | 220 | 260 | V |
| Operating temperature | | 0 | - | 35 | °C |
| Storage temperature | | -40 | - | 85 | °C |

| | | | |
|------------------------|----|--------------------------------------|----|
| Output fiber type | SM | SMF-28e@<10w | W |
| | PM | PM 9/ 125um @<10w | W |
| Output fiber length | | >1 | m |
| Output fiber connector | | FC/ APC | |
| Dimensions | | Rack-mounted customization available | mm |

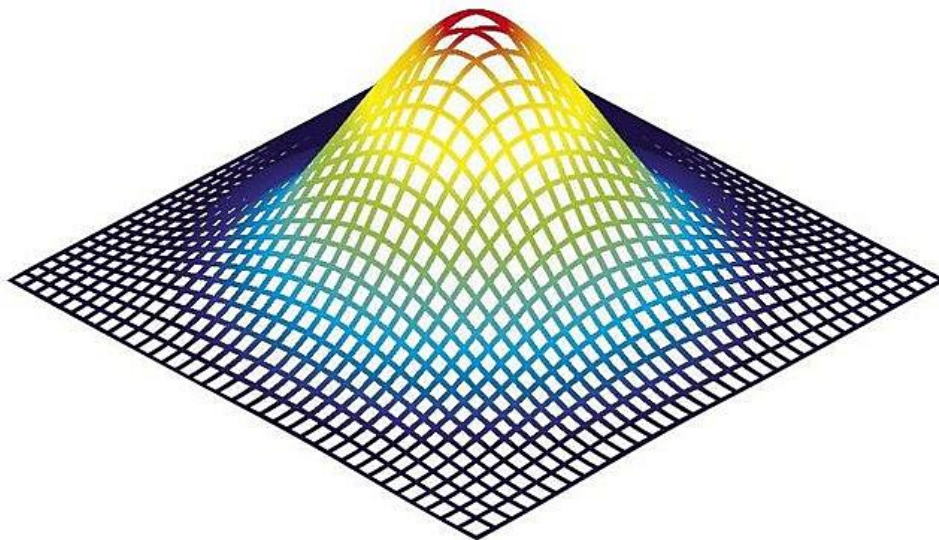
Spectrum



Power stability



Beam quality



Ordering info

A. Model: LP-1550-B-2-1-SA Description:

Center wavelength: 1550nm, wavelength deviation: ± 1 nm, output power: 2W, 2U rack-mounted packaging, single-mode SMF-28E output, FC/APC connector

B.A. Model: LP-1550-B-10-1-SA Description:

Center wavelength: 1550nm, wavelength deviation: ± 1 nm, output power: 10W, 2U rack-mounted packaging, single-mode SMF-28E output, FC/APC connector

E. Model: LP-1550-B-2-1-PA Description:

Center wavelength: 1550nm, wavelength deviation: ± 1 nm, output power: 2W, 2U rack-mounted packaging, single-mode PM1550 output, FC/APC connector

F. Model: LP-1550-B-10-1-PA Description:

Center wavelength: 1550nm, wavelength deviation: ± 1 nm, output power: 10W, 2U rack-mounted packaging, single-mode PM1550 output, FC/APC connector

C. Model: LP-1064-B-2-1-SA Description:

Center wavelength: 1064nm, wavelength deviation: ± 1 nm, output power: 2W, 2U rack-mounted packaging, single-mode SM-GSF-10/125 output, FC/APC connector

D. Model: LP-1064-B-10-1-SA Description:

Center wavelength: 1064nm, wavelength deviation: ± 1 nm, output power: 10W, 2U rack-mounted packaging, single-mode SM-GSF-10/125 output, FC/APC connector

G. Model: LP-1064-B-2-1-PA Description:

Center wavelength: 1064nm, wavelength deviation: ± 1 nm, output power: 2W, 2U rack-mounted packaging, single-mode PM-10/125 output, FC/APC connector

H. Model: LP-1064-B-10-1-PA Description:

Center wavelength: 1064nm, wavelength deviation: ± 1 nm, output power: 10W, 2U rack-mounted packaging, single-mode PM-10/125 output, FC/APC connector