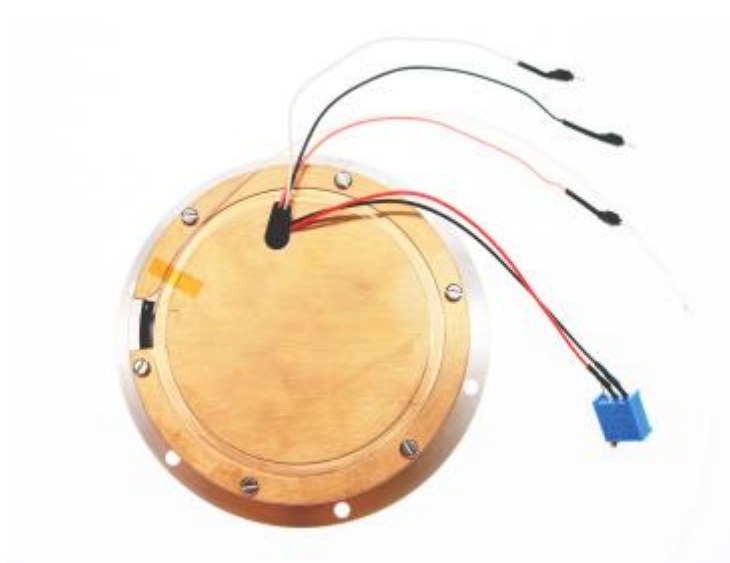


1550nm C-band High Stability ASE Light Source Module



● Product Description

The ASE light source is a white light source with very high brightness across a wide spectral range. The C-band ASE wide-spectrum light source module is used in distributed fiber Bragg grating (FBG) sensing systems, optical passive component testing, and spectral analysis design. It is an Amplified Spontaneous Emission (ASE) light source, which is based on the principle of pumping an erbium-doped fiber (Er ions) with a semiconductor laser to generate ASE in the C-band (1528-1563nm). Specially designed C-band spectral gain flattening filters (GFF) give the product extremely high optical-to-optical conversion efficiency and excellent spectral flatness in



the C-band. To ensure that the distributed fiber Bragg grating system meets strict output stability requirements, global optical feedback control technology and pulse width modulation (PWM) precise temperature control are used internally. This ensures extremely high output power stability and spectral waveform stability.

● Product features

High output power up to 10mW、 Wide spectrum from 1530 to 1570nm, with a spectral width of up to 40nm、 Stable spectral output power、 Flat output

● Part Number

MP-ASE-1550-10-40-SA

● Application area

Optical component testing、 OCT spectrometer、 FBG sensors、 Fiber optic gyroscope、 Gas detection

● Core parameters

Center wavelength	Output Power
1550nm	10mW

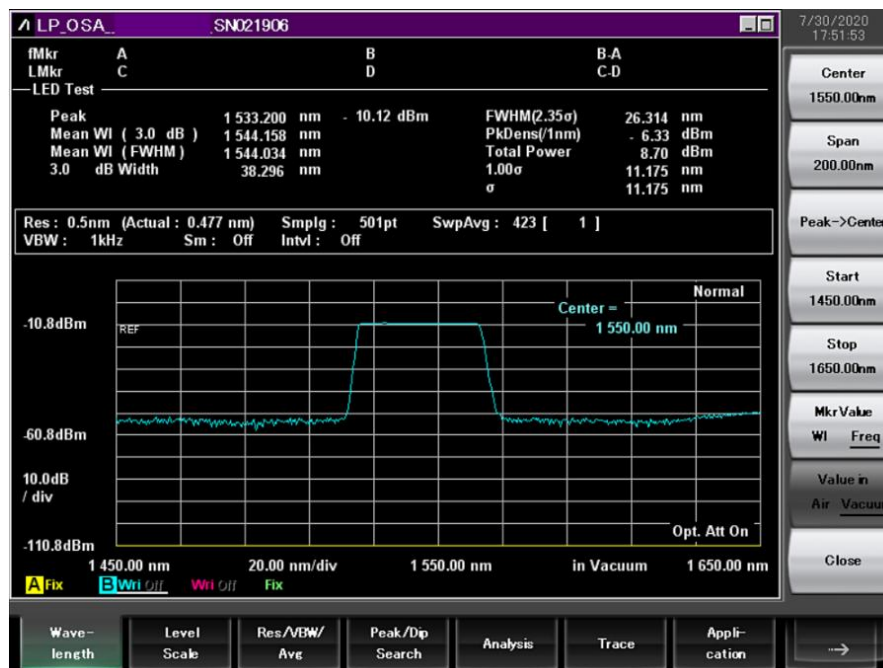


● General Parameters

Parameters

PN#	MP-ASE-1550-10-40-SA
Output Band	C-band
Output Power	10mW
Center Wavelength	1550nm
Spectral Width	40nm
Power Adjustment	Adjustable
Output Power	5mW@0.12A; 8mW@0.15A
Output Fiber and Connector	SMF FC/APC connector
Pin Definition	Red line +5V; White line -5V; Black line: GND
Operating Temperature	0-40°C
Power Supply Voltage	±5V

Test Spectrum



Power Stability Curve



Beam quality test

