Precision Fiber Optic Source, 1310nm FP



Limited Availability
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Product Features

50 nm Spectral Width Centered over C-Band

High Output Power to 20 mW, +13 dBm

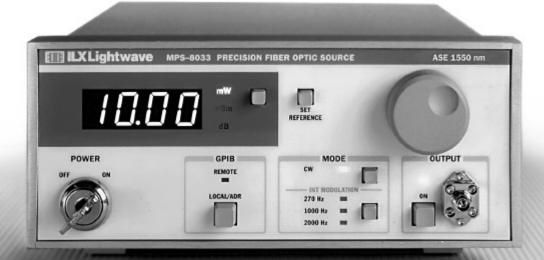
High Power Stability, less than ±0.005 dB over 15 minutes (typical)

Easily Integrated into production test benches via GPIB Interface

The MPS-8033 ASE Series of Broadband Precision Fiber Optic Sources provide highly stabilized, high power output. When used with an optical spectrum analyzer, the MPS-8033 ASE is ideal for rapid, wide-dynamic-range characterization of fiber optic amplifiers and components such as filters, WDM couplers and fiber Bragg gratings. Unlike an LED source, the MPS-8033 ASE can provide +13 dBm (20 mW) maximum output power, resulting in a better signal-to-noise ratio.



Broadband Precision Fiber Optic Sources



High Power Broadband Output with Unsurpassed Stability



MPS 8033 ASE Series

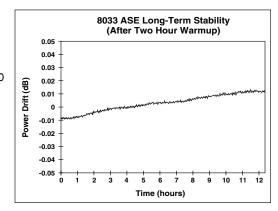
Broadband Precision Fiber Optic Sources

Amplified Spontaneous Emission from Erbium-Doped Fiber

The MPS-8033 ASE Series emits amplified

spontaneous emission from an
Erbium-doped fiber,
which is pumped
with a 980 nm pump
laser diode. The
output is optically
isolated and supplied through an
FC/APC output
connector. The
MPS-8033 ASE

Series sources fea-



Long-Term Stability of MPS-8033/55 1550 nm ASE Source.

ture broadband output centered at 1545 nm, with a 50 nm spectral width, covering the C-Band.

High Stability with Proven Current and TE Control

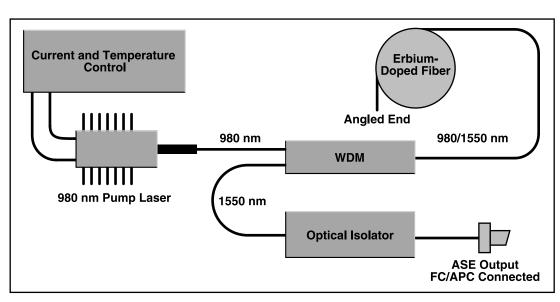
The MPS-8033 ASE Series achieves output stability with ILX's proven laser diode current and

temperature control electronics. This is especially important when making comparative measurements. The temperature of the pump laser is tightly controlled at two levels. Output power stability is typically better than ±0.03 dB over a 12-hour period.

Simple Front Panel Operation

The user-friendly front panel of the MPS-8033 ASE Series conveniently displays output power in either mW, dBm, or relative to an operator-

selected reference value in dB. The front panel adjust knob easily controls output power level up to 20 mW. The bright LED clearly displays power levels even in a darkened lab.



At the heart of the MPS-8033/55 is a stabilized 980 nm laser diode, used to pump a length of Erbium-doped fiber.



Rapid, Wide-Dynamic-Range Component Spectral Characterization.

Ready for Automated Testing

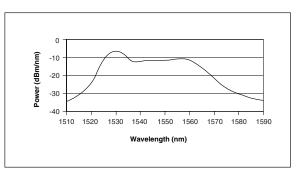
For automated testing, a standard GPIB interface enables remote programming and readout from a host computer. In remote operating mode, all front panel functions are

accessible through the GPIB bus. The GPIB also features increased display resolution with instrument specific commands. Software drivers for National Instruments Lab-VIEW® are available at no additional charge.

Ask about Customization for Your Particular Needs

Perhaps your application demands even higher power, spectral shaping of the output, or a different output connector. We'll put

our experience of supplying precision fiber optic sources to work, to meet your testing needs. Call one of our application engineers to discuss your particular requirements.



MPS-8033/55 typical output spectrum.

MPS 8033 ASE Series

Broadband Precision Fiber Optic Sources

MPS 8033 ASE Series

Broadband Precision Fiber Optic Sources

Specifications

OUTPUT

Spectral Density (typical): > -25 dBm/nm, 1520-1570 nm

Output Power

+10 dBm, (10 mW) /55 Option: /65 Option: +13 dBm, (20 mW) Output Polarization: Unpolarized Output Isolation: >30 dB Power Stability (15 min.):1 ±0.010 dB Power Stability (12 hour):2 $\pm 0.030 \ dB$ Output Connector: FC/APC SMF Fiber Type:

TRIGGER OUTPUT

Type:TTL
Jitter: 5 nS
Connector: BNC

GENERAL

Line Voltage: 90–105 VAC

105–125 VAC 210–230 VAC 220–250 VAC

Operating Temperature: 0°C–50°C

Humidity: <90% relative humidity,

Storage Temperature: noncondensing -40°C to 70°C Warm Up: 2 hour

Weight: <5 kg (10.5 lbs) Size (HxWxD): 88 mm x 212 mm x 269 mm

3.5" x 8.4" x 10.6"

Remote Interface: GPIB (standard)

NOTES

- 1 Temperature is constant (±0.1°C) after two hour warm-up with output on.
- 2 Temperature is constant (±1.0°C) after two hour warm-up with output on.

In keeping with our commitment of continuous improvement, ILX Lightwave reserves the right to change specifications without notice and without liability for such changes.

LabVIEW® is a registered trademark of National Instruments.

ORDERING INFORMATION

MPS-8033/55 10 mW Broadband 1550 nm ASE Source MPS-8033/65 20 mW Broadband 1550 nm ASE Source

RM-122 Dual Rack Mounting Kit RM-124 Single Rack Mounting Kit







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