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.





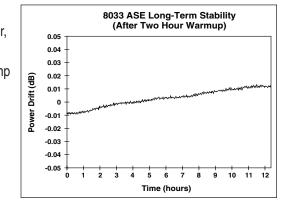
MPS 8033 ASE Series

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.

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

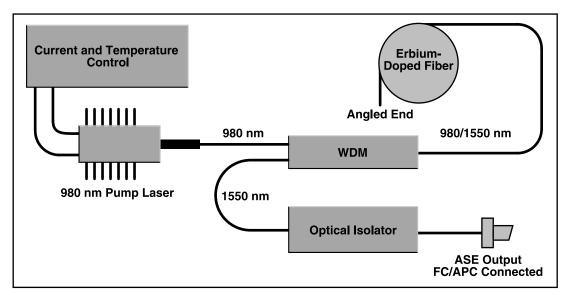
High Stability with Proven Current

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

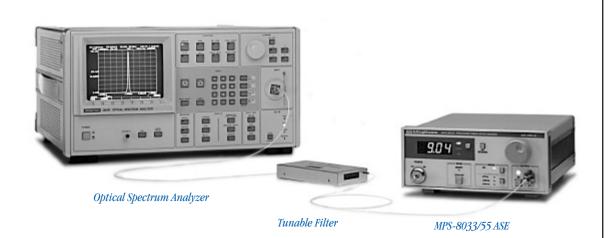
The user-friendly front panel of the MPS-8033 ASE Series conveniently displays output power in either mW, dBm, or relative to an operator-

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.

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





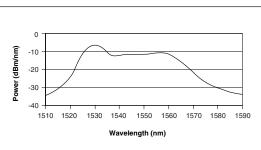
Ready for Automated Testing

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.

Series

Broadband **Precision Fiber**

Optic Sources



MPS-8033/55 typical output spectrum.



Broadband Precision Fiber Optic Sources

Specifications

OUTPUT

Spectral Density (typical): Output Power /55 Option: /65 Option: Output Polarization: Output Isolation: Power Stability (15 min.):¹ Power Stability (12 hour):² Output Connector: Fiber Type:

TRIGGER OUTPUT

Type:TTL Jitter: Connector:

GENERAL

Line Voltage:

Operating Temperature: Humidity:

Storage Temperature: Warm Up: Weight: Size (HxWxD):

Remote Interface:

1520–1570 nm +10 dBm, (10 mW) +13 dBm, (20 mW) Unpolarized >30 dB ±0.010 dB ±0.030 dB FC/APC SMF

> -25 dBm/nm,

FC/AP SMF

> 5 nS BNC

> > 90-105 VAC 105-125 VAC 210-230 VAC 220-250 VAC 0°C-50°C <90% relative humidity, noncondensing -40°C to 70°C 2 hour <5 kg (10.5 lbs) 88 mm x 212 mm x 269 mm 3.5" x 8.4" x 10.6" GPIB (standard)

NOTES

- 1 Temperature is constant (±0.1°C) after two hour warmup with output on.
- 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



www.ilxlightwave.com



