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Find the *Exfo IQ-2300* at our website: ***Click HERE***

ASE Broadband Source

IQ-2300







- ≥ 11 dBm total output power
- Broad, stable spectrum
- 2 dB flatness over a 28 nm range
- Ideal for component testing



Fiber-optic test, measurement and monitoring instruments

EXFO

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A high-power source for WDM system and component characterization

The IQ-2300 ASE Broadband Source, is a stable, high-powered, non-polarized fiber-optic source ideal for WDM filter and FBG (fiber Bragg grating) testing in the lab.



The IQ-2300 ASE Broadband Source is based on the principle of amplified spontaneous emission that uses an erbium-doped fiber pumped with a 980 nm laser diode (see Figure 1). This source is perfect for characterizing components such as filters, WDM couplers, and Bragg gratings. Its non-polarized output and very short coherence length makes it ideal for stable and repetitive insertion loss and optical return loss (ORL) measurements.

Key Features

- Loss characterization of DWDM components
- Return loss measurement
- Noise generation for system BER testing
- Polarizer testing
- Fiber Bragg grating monitoring under stress

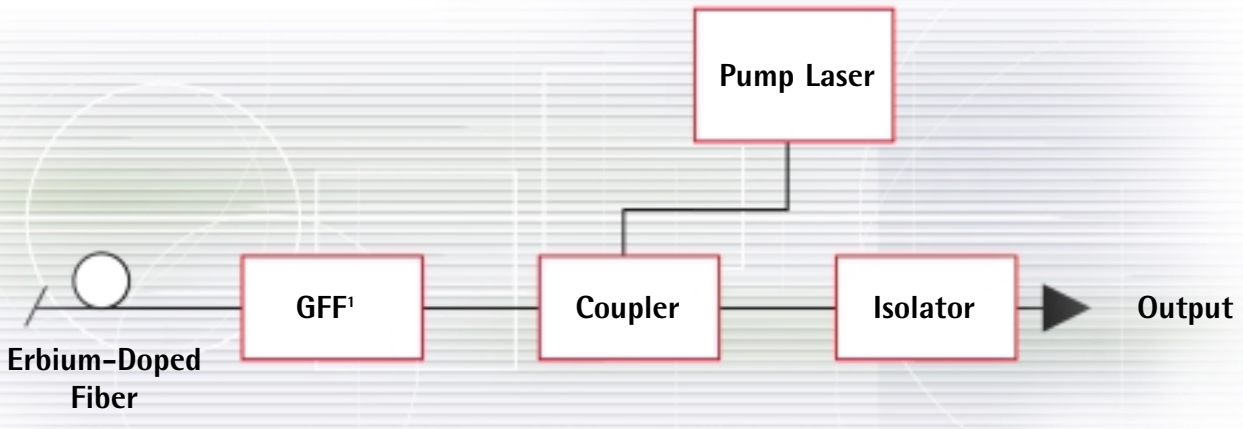
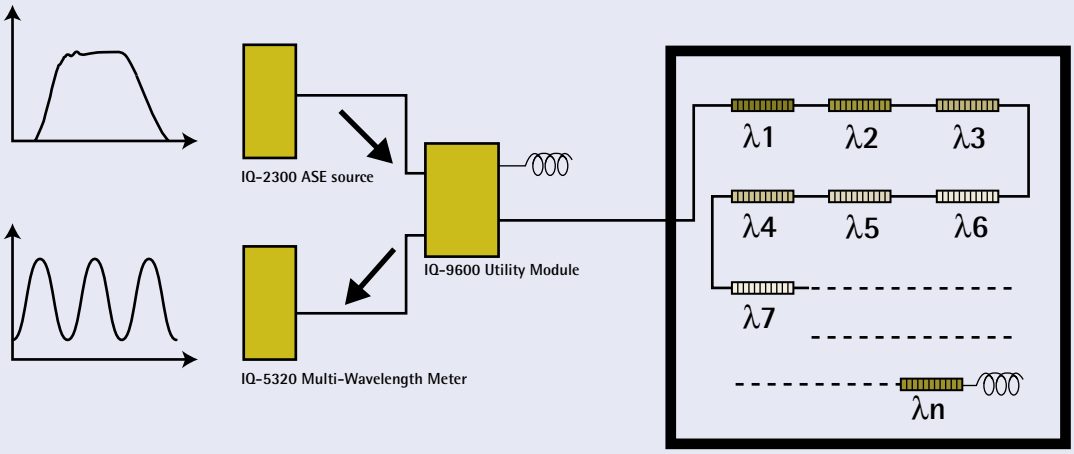


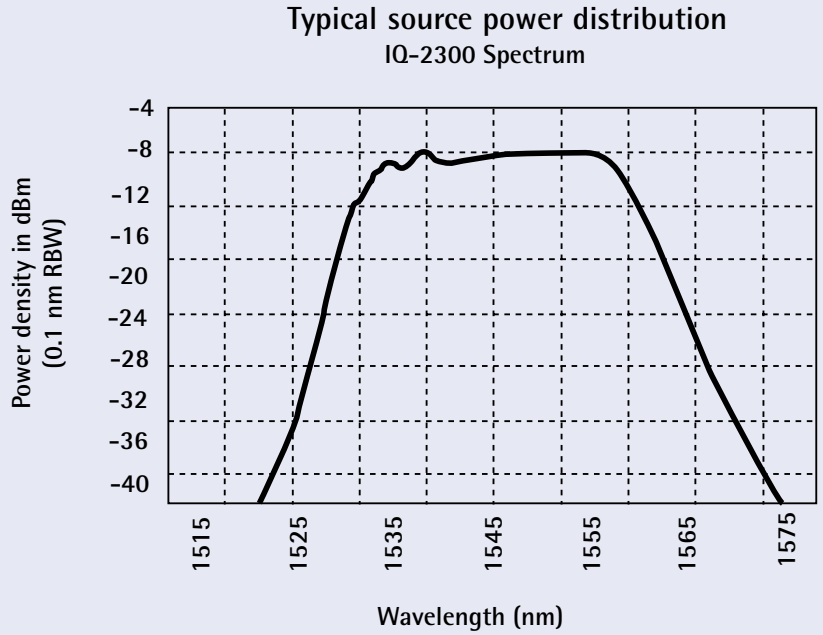
Figure 1: Internal configuration of the IQ-2300
1. Gain Flattening Filter

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Environmental testing on fiber Bragg gratings and WDM passive components

Combine the IQ-2300 ASE Broadband Source with the IQ-5320 Multi-Wavelength Meter or WA-7600/7100 Wavemeter® Optical Channel Analyzers to perform environmental testing. This setup precisely measures drift in the central wavelength of fiber Bragg gratings undergoing temperature changes, strain, or stress-inducing conditions. To analyze the multiplexed reflected signal and obtain a resolution of 1 pm, each Bragg central wavelength should be separated by more than 0.1 nm.





Spectrum of IQ-2300 Broadband Source

Specifications[1,2]

Wavelength range (nm)	1530-1560
Wavelength span (nm) at -30 dB, typical	73
Wavelength span (nm) at -3 dB, typical	33
Output power (dBm)[3]	≥ 11 dBm
Spectral density (dBm/nm), typical	> -4
Spectral flatness (dB)[2, 3]	2
Output power stability over 8 h (dB)[2, 3, 4]	± 0.05 (Δ = 0.10)

NOTE
1. Guaranteed within a range of 1532 to 1560 nm
2. After a warm-up of one hour
3. At 23 °C ± 1 °C.
4. The stability is expressed as ± half the difference between the maximum and minimum values during the period

General Specifications

Size (H x W x D)		12.1 cm x 3.8 cm x 26.2 cm	(4 3/4 in x 1 1/2 in x 10 5/16 in)
Weight		0.75 kg	(1.65 lb)
Temperature	operating	0 °C to 40 °C	(32 °F to 104 °F)
	storage	-40 °C to 60 °C	(-40 °F to 140 °F)
Relative humidity		0 % to 95 % non condensing	

Software Options

OCX controls and LabVIEW drivers

Ordering Information

IQ-2300-96
Hybrid* test jumpers available upon request
* Refers to the choice of hybrid patchcord; all IQ-2300 ASE Broadband Sources are equipped with a standard E-2000/APC connector.

Safety



LASER SAFETY
21 CFR 1040.10 and 1040.11 — CLASS 3B LASER PRODUCT
IEC 60825-1:1993+A1:1997 — CLASS 3A LASER PRODUCT

CORPORATE HEADQUARTERS	465 Godin Avenue	Vanier (Quebec) G1M 3G7 CANADA	Tel.: 1 418 683-0211 . Fax: 1 418 683-2170
EXFO AMERICA	1201 Richardson Drive, Suite 260	Richardson TX 75080 USA	Tel.: 1 800 663-3936 . Fax: 1 972 907-2297
EXFO EUROPE	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85 . Fax: +33.1.40.83.04.42
EXFO ASIA-PACIFIC	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 333 8241 . Fax: +65 333 8242
TOLL-FREE (USA and Canada)	Tel.: 1 800 663-3936	www.exfo.com • info@exfo.com	

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