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Find the *Exfo FLS-2600* at our website: ***Click HERE***

Tunable Laser Source

IQ-2600/FLS-2600







- High performance in the C-band
- Ideal for passive component characterization
- Excellent repeatability and stability
- Low noise, for accurate performance





Fiber-optic test, measurement and monitoring instruments

EXFO

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High-Performance, Medium-Coherence Tunable Laser Sources

Whether you work in R&D, product qualification, or manufacturing, the IQ-2600 and FLS-2600 Tunable Laser Sources offer the performance you need for complete characterization of fiber-optic filters, multiplexers and other DWDM components. An erbium fiber ring laser ensures ruggedness, performing well even in demanding production environments. Broad tuning range and excellent stability make these tunable laser sources a logical choice for measuring the wavelength-dependent gain, noise contribution and saturation properties of EDFAs. The IQ-2600 and FLS-2600 can also perform spectral sensitivity measurements on receivers and detectors. And with the most advantageous price/quality ratio on the market today, you can outfit your entire production system.



Key Features and Benefits

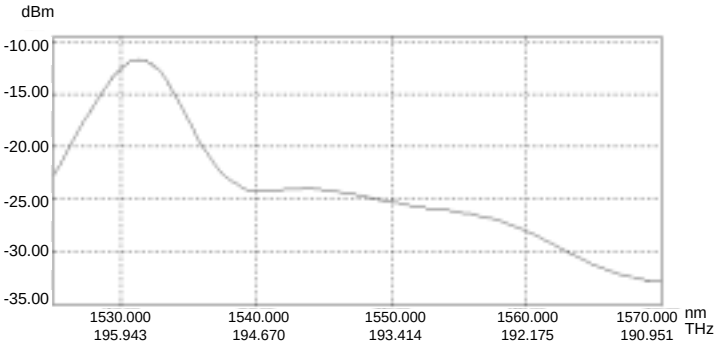
- > 65 dB signal to SSE ratio
- Natural medium coherence optimized for DWDM component testing
- 1520 nm to 1570 nm at 0.01 nm tuning resolution
- ASE output
- Continuously tunable over the complete range

Medium-coherence output

The IQ-2600 and FLS-2600 Tunable Laser Sources exhibit an effective spectral width of approximately 1 GHz (~ 0.01 nm), corresponding to a coherence length of about 10 cm. This property prevents the interference effects inside components and at connector endfaces that often affect measurements taken with high-coherence, external-cavity tunable lasers.

ASE source

Use the Mode button to switch from the tunable mode to the ASE mode. This feature transforms the IQ-2600 and FLS-2600 into high-powered ASE sources, ideal for loss testing of many passive WDM components. This series of tunable laser sources provides you with a broadband source and a tunable source in one modular package.



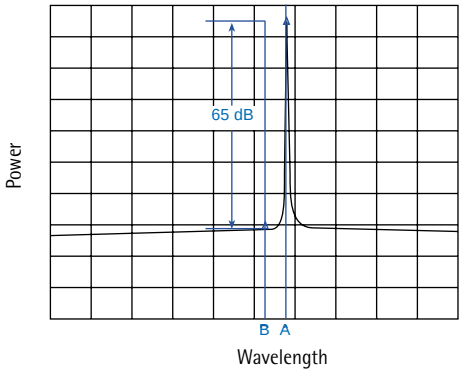
ASE output of FLS-2600 or IQ-2600 Tunable Laser Source

Depolarized output

Using the IQ- or M9734 depolarizer, lower the degree of polarization of the IQ- or FLS-2600 from nearly 100 % to as low as 10 %.

> 65 dB signal to SSE ratio

The > 65 dB signal to SSE ratio of the IQ-2600 and FLS-2600 provides a high dynamic range for testing passive DWDM components, letting you measure crosstalk at levels impossible for traditional external cavity lasers.



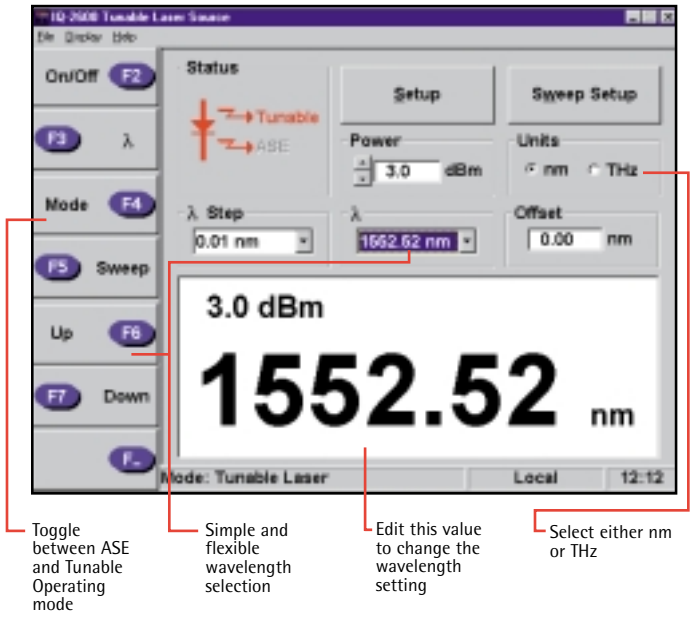
Signal to SSE of FLS-2600 or IQ-2600 Tunable Laser Source

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Main Applications

- Complete characterization of filters, multiplexers, Bragg gratings and other DWDM components
- EDFA testing: wavelength-dependent gain, noise contribution and saturation properties
- Spectral sensitivity on receivers and detectors
- Instrument calibration
- Passive component testing during the alignment process

Main screen: IQ-2600 software application



Flexible Software

- Manually adjust wavelength by incremental values in the "λ Step" box or using the cursor in the display
- Select continuous or step-by-step sweep parameters
- Change the signal power (3 dB reduction), reducing the current to the laser pump

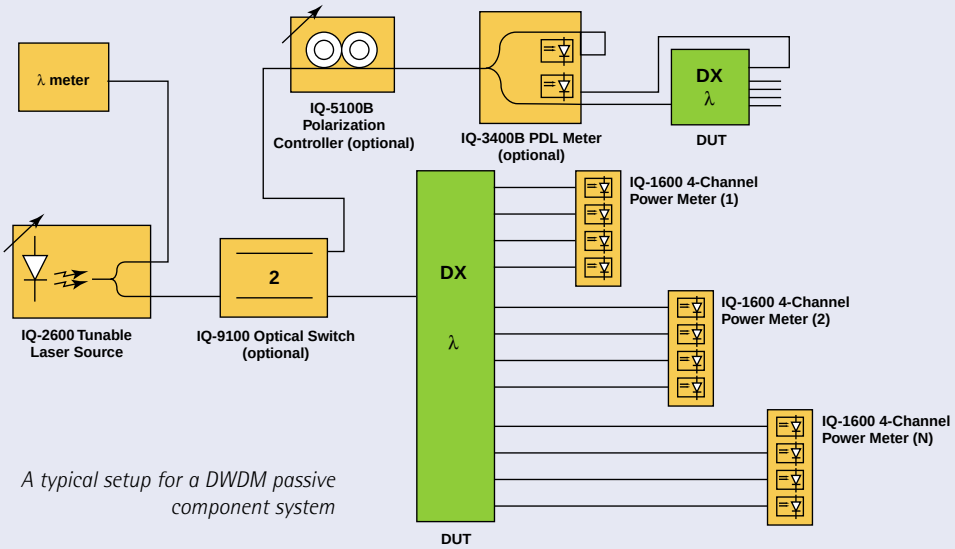
EXFO's tunable laser sources 2600 series are controlled by software that offers both manual and programmed specifications of wavelength output and power level, as well as a range of sweep options. This easy-to-use, flexible software lets you combine your tunable laser source with a variety of other test equipment to perform automated measurements.



Integrate the IQ-2600 with the IQ-12004B DWDM Passive Component Test System for a turnkey testing solution.

Wide-Ranging Compatibility

Combine one of these tunable laser sources with one or more IQ-1600 High Speed Power Meters for complete simultaneous testing on multiple channels with a single wavelength sweep. This setup is a reliable choice for complete characterization of multiplexers and other DWDM components.



A typical setup for a DWDM passive component system

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Specifications[1]

Tunable Mode		
Wavelength range (nm)		1520 to 1570
Display tuning resolution (nm)		0.01
Spectral linewidth FWHM[2] (nm) typical		0.05
Wavelength uncertainty (nm)		± 0.15
Wavelength repeatability (nm)		± 0.02 (Δ =0.04)
Wavelength stability[3] (nm) 1-hour		± 0.01 (Δ= 0.02)
Signal/SSE ratio[4] (dB)		> 65
Signal to total SSE ratio (dB)		> 40
Sweep rate[6] (nm/s)	maximum	2.5
Output power (dBm)[6]	typical	5
	minimum	4
Power stability over 15 minutes[3] (dB)		± 0.01 (Δ= 0.02)
Power stability over 1-hour[3] (dB)		± 0.05 (Δ= 0.10)
Power flatness across tuning range (dB)		< 0.5
ASE Mode		
Range (nm)		1520-1570
Output power (dBm)		≥ 5
Power stability over 8 hours[3] (dB)		± 0.05 (Δ =0.10)

Ordering Information

IQ-2600-XX
FLS-2600-XX

Connector Code
Must be replaced with the desired fixed-base plate:
EI = UPC Universal Interface
EA = APC Universal Interface

Please specify one EUI from the following list:
EUI-28 = DIN 47256
EUI-76 = HMS-10/AG (EI only)
EUI-89 = FC narrow key
EUI-90 = ST (EI only)
EUI-91 = SC
EUI-95 = E-2000

General Specifications

FLS-2600			
Size (H x W x D)		11.7 cm x 22.2 cm x 33.3 cm	
		(4 5/8 in x 8 3/4 in x 13 1/8 in)	
Weight		2.7 kg	(5.9 lb)
Temperature			
	operating	0 °C to 40 °C	(32 °F to 104 °F)
	storage	-40 °C to 70 °C	(-40 °F to 158 °F)
Relative humidity		0 to 80 % non-condensing	
IQ-2600			
Size (H x W x D)		12.1 cm x 7.6 cm x 26.2 cm	
		(4 3/4 in x 3 in x 10 5/16 in)	
Weight		1.2 kg	(2.6 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	

Notes

1. At 23 °C, after 1-hour warm-up unless specified otherwise.
2. FWHM = Full width at half maximum.
3. At constant temperature. The stability is expressed as ± half the difference between the maximum and minimum values measured during the period.
4. Measured with OSA, 0.1 nm resolution bandwidth at 5 nm from the central wavelength.
5. Continuously tunable sweep.
6. Over complete range.

Safety

21 CFR 1040.10 and 1040.11,
IEC 60825-1:1993+A1:1997
CLASS 1 LASER PRODUCT

Standard Accessories

Instruction manual and Certificate of Compliance

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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