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Venturi™ 6600 Swept-Wavelength Tunable Lasers

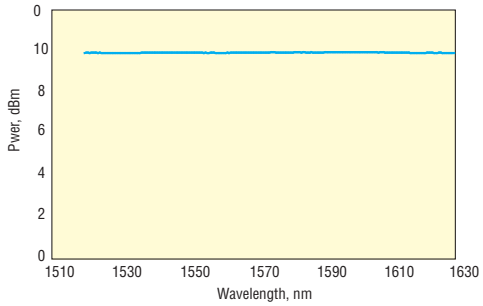


Applications

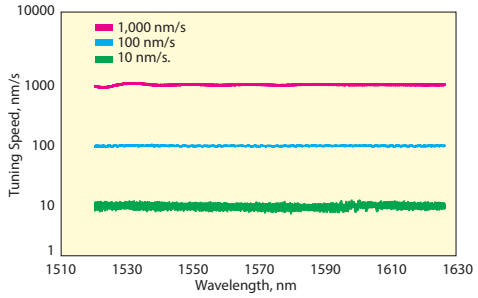
- Ultrafast 2,000-nm/s tuning enables true real-time measurements
- Ultrawide 110-nm mode-hop-free tuning
- >70-dB ASE low-noise version for high-dynamic-range test and measurement
- Multiple integrated options available

The TLB-6600 Venturi Swept-Wavelength lasers deliver it all. They combine the best in tunability - ultrafast, ultrawide, and mode hop-free - with low noise, high accuracy and repeatability. Because the lasers are based on our award-winning* design, they are extremely dependable with OEM-proven 24/7 reliability (over 100-million cycles tested without failure). Ideal for fiber sensing, spectroscopy, laser seeding, metrology and fiber-optics testing, these lasers are available with a variety of options so you can build the system you need.

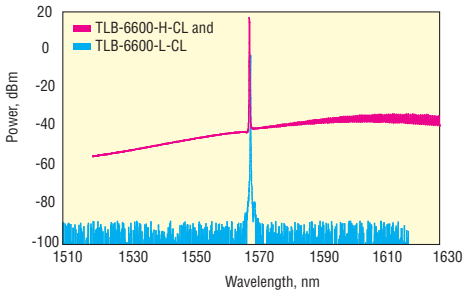
TLB-6600 VENTURI SWEPT-WAVELENGTH TUNABLE LASERS PERFORMANCE



Power stability for the Model TLB-6600-H-CL over the entire C+L tuning range.



Tuning linearity for the Model TLB-6600-H-CL



Carrier and ASE for Models

Venturi™ 6600 Swept-Wavelength Tunable Lasers

Specifications[1]

	TLB-6600-H-CL	TLB-6600-L-CL	TLB-6600-H-O	TLB-6600-L-O	TLB-6600-840
Mode-Hop Free Tuning Range (nm)	1520-1630 nm	1510-1620 nm	1260-1340 nm	1260-1340 nm	835-845 nm
Tuning Speed	2-2,000 nm/s	2-2,000 nm/s	2-2,000 nm/s	2-2,000 nm/s	5-1,000 nm/s
Wavelength Resetability	±15 pm	±15 pm	±15 pm	±15 pm	±15 pm
Absolute Wavelength Accuracy	±30 pm	±30 pm	±30 pm	±30 pm	±30 pm
Output Power (fiber-coupled)	>6 mW	>1 mW	>4 mW	>1 mW	>3 mW
Output Power Flatness (swept)	>50 dBc	>50 dBc	>50 dBc	>50 dBc	>50 dBc
ASE	>40 dB	>70 dB	>40 dB	>70 dB	>40 dB
Integrated Dynamic Range	>15 dB	>55 dB	>15 dB	>55 dB	N/A
Fiber Optic Connector	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC
Fiber Type	SM or PM	SM or PM	SM	SM	SM
Integrated Options Available	PWR, VOA, PC, RM	PWR, VOA, PC, RM	N/A	N/A	N/A

1. Specifications are subject to change.

Wavelength Reference Option

Integrated Precision Wavelength Reference Module*

Accuracy	<1 pm
Repeatability	<1 pm
Insertion Loss	1.0 dB (max)
Polarization Dependent Loss (PDL)	0.1 dB (max)
Valid Sweep Rates	10–200 nm/s
Wavelength Range Excluded	None
Fiber Type (input/output)	SM/SM
Model	TLB-6600-PWR

*Wavelength Reference option available on CL version only

Polarization Controller Option

Integrated Polarization Controller, 6-State*

SOP Generated	6-SOP: -45°, 0°, 45°, 90°, RHC, LHC
SOP Repeatability	±1° on Poincaré sphere
SOP Switching Speed	250 ms
Rotation Angle Wavelength Dependence	0.068°/nm
Insertion Loss	1 dB (typical)
Insertion Loss Variation with SOP	0.1 dB (max)
Insertion Loss Variation with Wavelength	0.2 dB (max)
Fiber Type (input/output)	PM/SM
Model	TLB-6600-PC

*Polarization Controller option available on CL and O versions only

VOA Option

Integrated Variable Optical Attenuator*

Attenuation Range	>20 dB
Accuracy	0.1 dB (typical across range)
Excess Loss	<0.7 dB (max)
Polarization Dependent Loss (PDL)	0.2 dB (max)
Fiber Type (input/output)	SM/SM
Model	TLB-6600-VOA

*VOA option available on CL version only

Rack Mount Option

Rack Mount Kit

Contents	Rack Mount Ears and Slides
Model	TLB-6600-RM



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New Focus™
A Newport Corporation Brand

3635 Peterson Way, Santa Clara, CA 95054, USA
PHONE: 1-800-222-6440 1-408-980-4300 FAX: 1-408-919-6083 EMAIL: sales@newfocus.com

	PHONE	EMAIL
Belgium	+32-(0)0800-11 257	belgium@newport.com
China	+86-10-6267-0065	china@newport.com
France	+33-(0)1-60-91-68-68	france@newport.com
Japan	+81-3-3794-5511	spectra-physics@splasers.co.jp
Taiwan	+886 -(0)2-2508-4977	sales@newport.com.tw

	PHONE	EMAIL
Irvine, CA, USA	+1-800-222-6440	sales@newport.com
Netherlands	+31-(0)30 6592111	netherlands@newport.com
United Kingdom	+44-1235-432-710	uk@newport.com
Germany / Austria / Switzerland	+49-(0)6151-708-0	germany@newport.com

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Newport Corporation, Global Headquarters
1791 Deere Avenue, Irvine, CA 92606, USA
PHONE: 1-800-222-6440 1-949-863-3144
EMAIL: sales@newport.com
Complete listings for all global office locations are available online at www.newport.com/contact

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