

Narrow-Linewidth Tunable Laser

TLG-200

- Affordable narrow-linewidth (<100kHz) tunable laser
- 1MHz wavelength tuning resolution
- Extended C/L-band compatibility

1550nm	Narrow Line-Width	Max. 4ch	Remote	Module Possible
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Specifications

Parameter	Type	Variable tuning Laser	ITU Grid tuning Laser	Unit
Channel Number	Module	1 or 2	1 or 2	
	Benchtop	1 to 4	1 to 4	
Output Power Range	C-band	+7 to +15.5	+8 to +14	dBm
	L-band	+7 to +14.5	+6 to +11	dBm
Optical Power Accuracy		±1	±1	dB
Wavelength Range ¹	C-band	1527.60 to 1565.50	1528.77 to 1563.86	nm
	L-band	1570.01 to 1608.76	1568.77 to 1607.47	nm
Frequency Range ¹	C-band	191.50 to 196.25	191.70 to 196.10	THz
	L-band	186.35 to 190.95	186.50 to 191.10	THz
Channel Spacing		Continuous	50	GHz
Frequency Fine Tune Resolution		1	-	MHz
Frequency Fine Tune Range		±6	-	GHz
Frequency Accuracy		±2.5	±1.8	GHz
Linewidth (FWHM)		<100	1000 (typ.)	kHz
Side Mode Suppression Ratio (SMSR)		>40	>40	dB
RIN		-145	-145	dB/Hz
Polarization Extinction Ratio (PER)		>20	>20	dB
Warm-up Time		20		s
Optical Fiber		PMF		
Optical Connector		FC or SC, SPC or APC		
PC Interface	Module	RS-232		
	Benchtop	USB and GPIB		
Power Supply	Module	DC 9V, 1A		
	Benchtop	AC 100-240 (50/60Hz)		Vac
Dimensions (W x H x D)	Module	150 x 43.5 x 235		mm
	Benchtop	236 x 88 x 380		mm
Weight	Module	1		kg
	Benchtop	5		kg

1. Lasers with extended wavelength ranges also available. C-band: 1520-1580nm (189.75-197.20THz). L-band: 1563-1623nm (184.80-191.80THz). Note: The above specifications may change without prior notice.

Ordering Information

TLG-200- - - -

Laser Type	Wavelength	Package Type	Connector Type
S : Standard Laser	C : C-band	M : Module	FS : FC/SPC SS : SC/SPC
G : Grid Laser	L : L-band	B : Benchtop	FA : FC/APC SA : SC/APC
	N : N/A		



Multi-Channel Narrow-Linewidth Tunable Laser

TLG-300

- Slot configuration allows future channel expansion
- Mainframes can be cascaded to accommodate over 160ch
- Firmware memorizes “last setting” for a hassle-free start-up

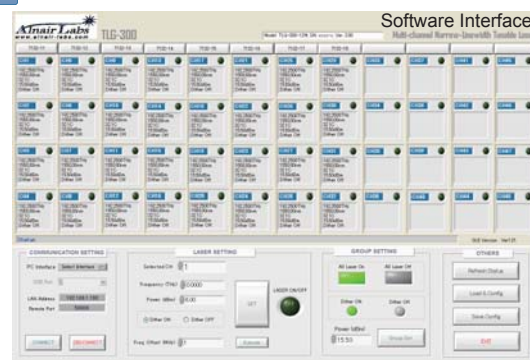
1550nm

Narrow Line-Width

Slot Configuration

Max. 48ch

Remote



Specifications

Parameter: Mainframe		TLG-300M-12	Unit
Slot Capacity		12	units
Max Laser Module Capacity		48	channels
PC Interface		USB, GPIB, Ethernet	
Laser Safety		Front Panel Key-Lock, Software-Based Interlock	
Power Supply		AC100-240 (50/60Hz)	Vac
Power Consumption		<650	W
Dimensions (W x H x D)		448 x 177 x 540	mm
Weight		<16	kg

Parameter: Laser	Type	Variable tuning Laser	ITU Grid tuning Laser	Unit
Output Power Range	C-band	+7 to +15.5	+8 to +14	dBm
	L-band	+7 to +14.5	+6 to +11	dBm
Wavelength Range ¹	C-band	1527.60 to 1565.50	1528.77 to 1563.86	nm
	L-band	1570.01 to 1608.76	1568.77 to 1607.47	nm
Frequency Range ¹	C-band	191.50 to 196.25	191.70 to 196.10	THz
	L-band	186.35 to 190.95	186.50 to 191.10	THz
Frequency Fine Tune Resolution		1	-	MHz
Linewidth (FWHM)		<100	1000 (typ.)	kHz
Side Mode Suppression Ratio (SMSR)		>40	>40	dB
RIN		-145	-145	dB/Hz
Polarization Extinction Ratio (PER)		>20	>20	dB
Optical Fiber		PMF		
Optical Connector		FC or SC, SPC or APC		

1. Lasers with extended wavelength ranges also available. C-band: 1520-1580nm (189.75-197.20THz). L-band: 1563-1623nm (184.80-191.80THz).
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Ordering Information

Mainframe

TLG-300M-12

Narrow Linewidth Tunable Laser Unit

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Laser Type	Wavelength	Connector Type	
S : Standard Laser	C : C-band	FS : FC/SPC	SS : SC/SPC
G : Grid Laser	L : L-band	FA : FC/APC	SA : SC/APC
	N : N/A		

