

Velocity6700 ワイドレンジ波長可変レーザー

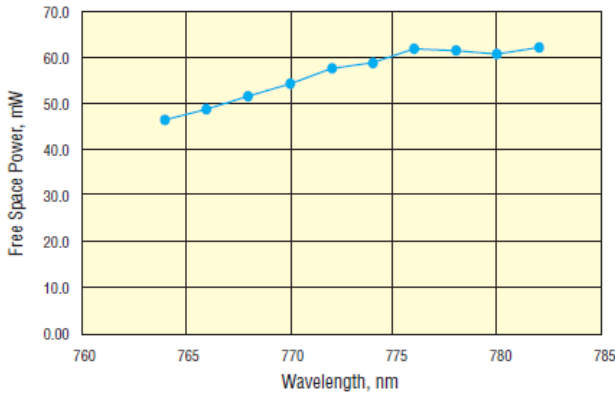


- ・モードホップフリー波長チューニング
- ・高出力
- ・狭線幅
- ・安定性向上
- ・定パワーモード&定電流モード
- ・フリースペースタイプ&ファイバ出力タイプ
- ・TLB-6300シリーズの改良型

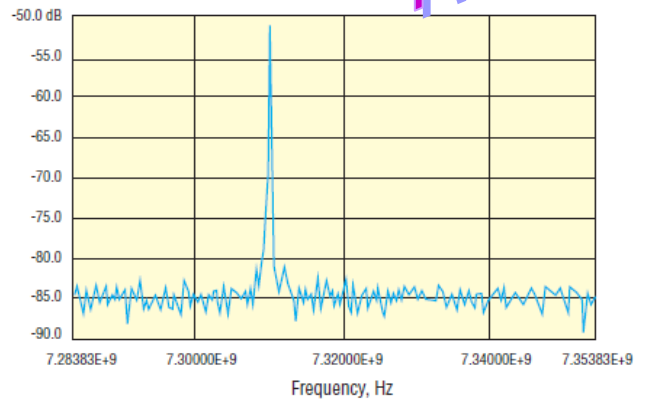


TLB-6700-LN コントローラ

- ・低ノイズ
- ・波長モニタ&表示(最小単位 0.01nm)
- ・自動レーザーヘッド認識
- ・温度、電流、チューニングレンジ設定
- ・200mA, 500mA 用の 2 機種
- ・USB インターフェース



Power curve for the TLB-6712. >50 mW at 780 nm and >45 mW across entire tuning range.



Heterodyne beat note of two Velocity TLB-6712 lasers, 50 ms integration time. Deconvolved FWHM <200 kHz.



Specifications ¹	TLB-6704	TLB-6711	TLB-6712	TLB-6716	TLB-6718
Min Mode-Hop Free Tuning Range ²	635-638 nm ⁶	729-739 nm ⁷	765-781 nm	830-853 nm	945-975 nm
Min Mode-Hop Free Tuning Range (Fine-Frequency)	>80 GHz (110 pm)	>80 GHz (140 pm)	>80 GHz (150 pm)	>60 GHz (150 pm)	>50 GHz (160 pm)
Free Space Power ³	8 mW @ 638 nm	20 mW @ 737 nm	50 mW @ 780 nm	50 mW @ 850 nm	30 mW @ 960 nm
Max Tuning Speed	5 nm/s	8 nm/s	8 nm/s	10 nm/s	10 nm/s
Typical Beam Size (mm)	1.0x1.0	1.8x1.7	1.5x1.2	1.3x0.6	1.2x0.8
Linewidth (50 ms Integration Time)	<200 kHz (50 ms Integration time)				
Wide Tuning Resolution	0.01 nm				
Fine-Frequency Modulation Bandwidth	<2 kHz				
Max Current Modulation Bandwidth ⁴	<1 MHz				
Max Current Modulation Bandwidth ⁵	<100 MHz				

Specifications ¹	TLB-6721	TLB-6724	TLB-6725	TLB-6728	TLB-6730
Min Mode-Hop Free Tuning Range ²	1030-1070 nm	1270-1330 nm	1390-1470 nm ⁸	1520-1570 nm	1550-1630 nm
Min Mode-Hop Free Tuning Range (Fine-Frequency)	>50 GHz (190 pm)	>50 GHz (290 pm)	>30 GHz (200 pm)	>30 GHz (240 pm)	>30 GHz (260 pm)
Free Space Power ³	60 mW @ 1064 nm	30 mW @ 1300 nm	45 mW @ 1450 nm	30 mW @ 1550 nm	30 mW @ 1600 nm
Max Tuning Speed	12 nm/s	15 nm/s	15 nm/s	20 nm/s	20 nm/s
Typical Beam Size (mm)	1.8x0.9	1.9x1.7	1.9x1.7	1.9x1.7	1.9x1.7
Linewidth (50 ms Integration Time)	<200 kHz (50 ms integration time) kHz				
Wide Tuning Resolution	0.01 nm				
Fine-Frequency Modulation Bandwidth	<2 kHz				
Max Current Modulation Bandwidth ⁴	<1 MHz				
Max Current Modulation Bandwidth ⁵	<100 MHz				

¹ Specifications are subject to change. ⁴ Current modulation through controller
² Contact Newport for all available wavelength ranges. ⁵ Current modulation directly to diode through laser head SMA port.
³ Fiber coupled and optical isolator options available. Typical fiber-coupling efficiency is 40-50%. ⁶ 635-639 nm extended wavelength range available.
⁷ Any 10 nm wavelength range within 725-741 nm available. Call New Focus for specs and custom quote.
⁸ Any 80 nm wavelength range within 1390-1490 nm available. Call New Focus for specs and custom quote.