



“1 μ m Band ASE-Free Tunable Diode Laser”

- ASE-Free Output : $< -80\text{dB}@0.01\text{nm}$
- High Output Power : $> 100\text{mW}$ (Free), 50mW (Fiber)
- Wide Tuning Range : $> 100\text{nm}$ (980~1090nm)
- Mode Hop Free Tuning : $> 50\text{nm}$
 - Narrow Linewidth : $\sim 100\text{kHz}$ (10 μs)
 - Digital Control : 0.1pm /step res.
- Built-in Data Acquisition : 16bit – 2ch.
 - PC Control : LabVIEW software



Spectra Quest Lab, Inc

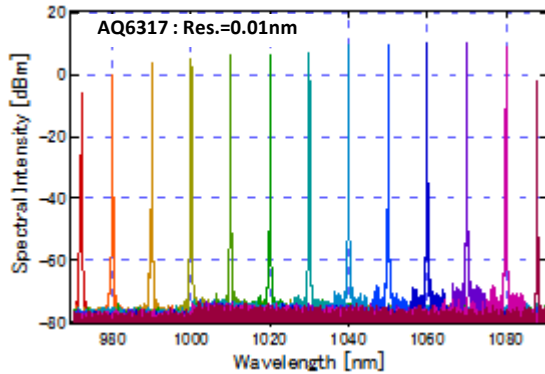
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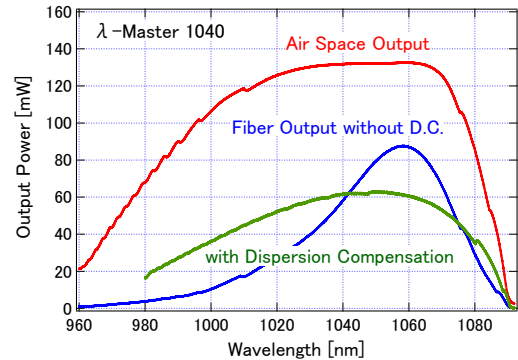
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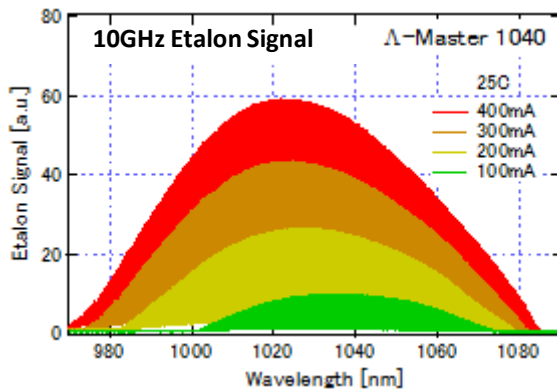
<http://spectraquestlab.com>



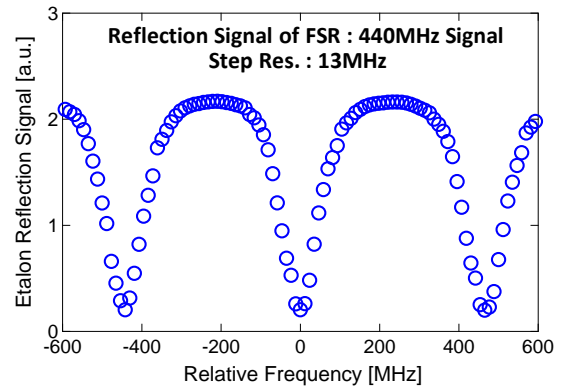
ASE-Free Output Spectra



High Power and Wide Tuning



Narrow Linewidth and MHF Tuning



High Resolution Digital Control

Specifications	λ -Master 1040	Comments
Tuning Range	980~1090nm	920~1000nm is also available
Mode Hop-Free Tuning	>50nm	around specified wavelength
ASE-Free Output Power	>100mW @ 1040nm	SMSR:>80dB@0.01nm
Fiber Coupled Power	>50mW @ 1040nm	Optional
Max. Tuning Resolution	0.1pm (30MHz)	Digital control by stepping motor
Max. Tuning Speed	30nm/s	Any speed between 1~300000pps
Linewidth (1ms)	<100kHz	In silent environments
Current Modulation	~45MHz/mA	Bandwidth: <100kHz
PZT Continuous Tuning	>100GHz	Optional
Built-in Etalon Monitor	10GHz Etalon	Optional
Rapid Data Acquisition	16bit 2 ch. Analog Input	Synchronized to control pulse
System Control	LabVIEW Software	USB bus, DI and DO for step scan
Laser Head Dimension	110x166x330mm, 5kg	Controller : 240x140x360mm, 6.5kg

*Specification may change without notification.