

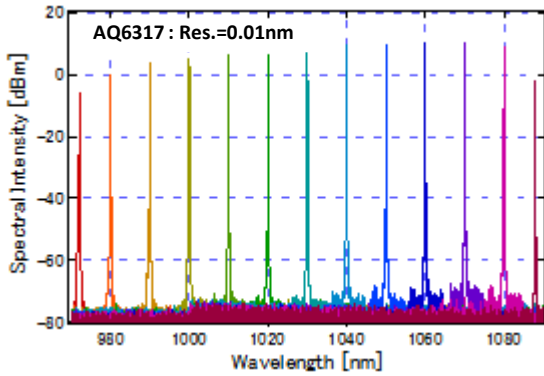


High Performance $1\mu\text{m}$ Band Tunable Diode Laser

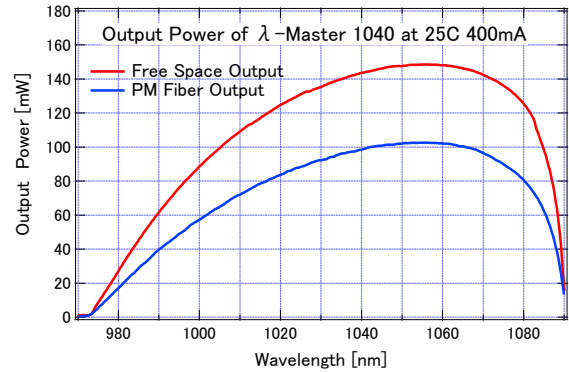
- **High Spectral Purity (ASE-Free)** : SMSR >80dB @res:0.01nm
- **High Output Power** : Max: > 100 mW (Fiber: > 60 mW)
- **Wide Tuning Range** : 980 nm ~ 1090 nm
- **Mode-Hop Free Tuning** : over entire tuning range
 - **Narrow Linewidth** : ~100kHz (100 us)
- **High-Resolution Control** : 0.1 pm/step
 - **built-in Power Control** : ~ 20dB
 - **Data Acquisition** : 2ch.16bit AD (Synchronized to λ scan)
- **Full Computer Control** : via USB, EXE and LabVIEW software



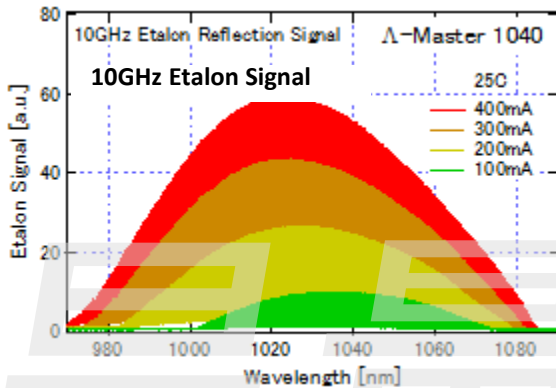
λ -Master 1040



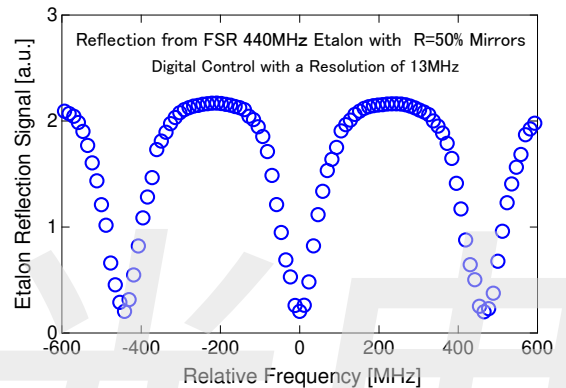
ASE-Free Output Spectra



High Power and Wide Tuning



Continuous Mode Hop Free Tuning



High Resolution Digital Control

Specifications	λ -Master 1040	Comments
Tuning Range	980~1090 nm	Available from 880 nm to 1680 nm
Mode Hop-Free Tuning	Over Entire Tuning Range	Active MHF Control
ASE-Free Output Power	> 100 mW @1060 nm	SMSR > 80dB @0.01 nm resolution
Fiber Coupled Power	> 60 mW @ 1060 nm	PM980 with FC/APC Connector
Tuning Resolution	0.1pm (30MHz)	0.01pm (3MHz) option is available
Max. Tuning Speed	30 nm/s	Any speed between 1 pm/s ~ 30 nm/s
Linewidth (1 μ s)	< 100 kHz	100 us In silent environments
Current Modulation	~ 45MHz/mA	Bandwidth: 1 MHz
PZT Tuning	~ 10 GHz for 150 V	Optional
Built-in Etalon Monitor	10 GHz FSR Etalon	Optional
Built-in Power Control	~20dB	Optional
Data Acquisition Function	16bit 2ch. Analog Inputs	Synchronized to control pulse
Digital Control Interface	DI and DO Ports	Step scan synchronized to other instrument
System Control	Via USB	Windows PC application (EXE, LabVIEW)