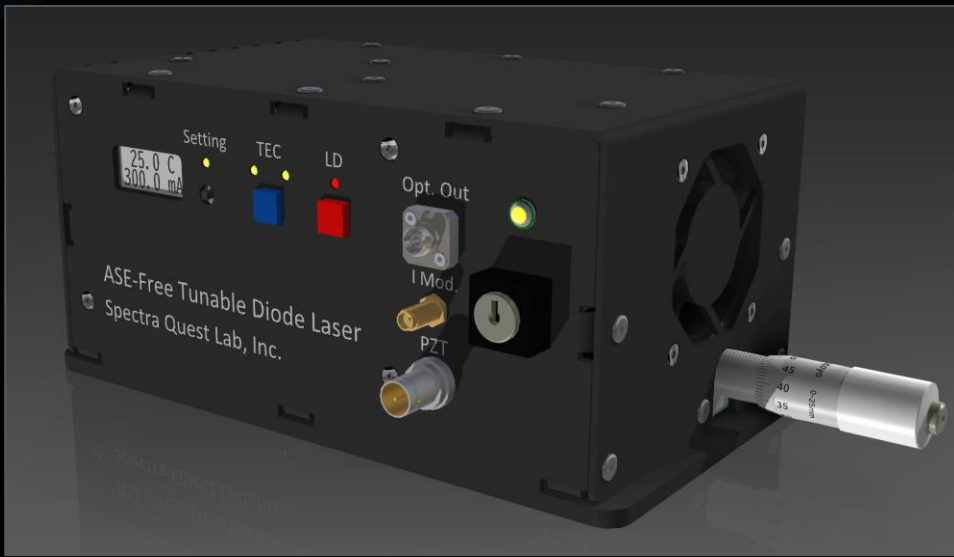


λ -Lock series

Low-Cost, Manual Tuning, ASE-Free Tunable Diode Laser



Parameter	Model				UNIT
	950	1040	1300	1580	
Wavelength Coverage (*1)	920 - 1000	980 – 1080	O-band	CL-band	nm
Manual Tuning Resolution (*2)	125		200	250	pm
Wavelength Stability (*3)	0.03		0.05		nm
Maximum PM-Fiber Output Power	40	50	25	25	mW
Isolation	Max. 30		Max. 30, (100 optional)		dB
Spectral Purity	SMSR > 80				dB
Relative Intensity Noise (> 0.5MHz)	120 (typ.)		150 (typ.)		dBc/Hz
3dB Linewidth (100us integration)	< 100				kHz
EPR	> 20				dB
Fiber Connector	FC/APC. Polarization is aligned in the key direction (slow axis).				
LD Current Modulation (Optional)	Gain: 20 mA/V (+/- 1V max.), terminal: SMA, Input impedance: 50Ω				
Wavelength Modulation Range by PZT (0 – 150V), (Optional *4)	250		400	500	pm
Package	W240 (310)*5 X H100 X D120		W200 (270)*5 X H100 X D120		mm
Power Supply	24VDC (AC adapter included)				

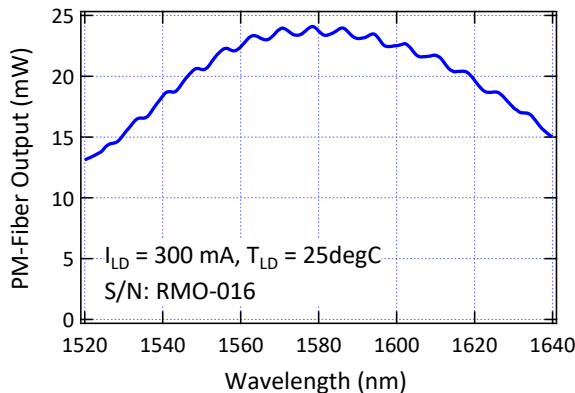
1. Available between 880nm - 1680nm.
2. Corresponds to half of the scale of a micrometer head with a 10 μ m reading.
3. After warm-up, under constant temperature.
4. Can be changed to a piezo of up to twice the length.
5. Micrometer head protrudes from case by up to 70 mm.



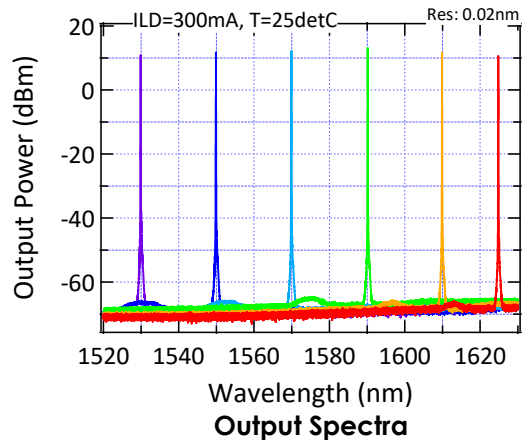
λ -Lock series

Low-Cost, Manual Tuning, ASE-Free Tunable Diode Laser

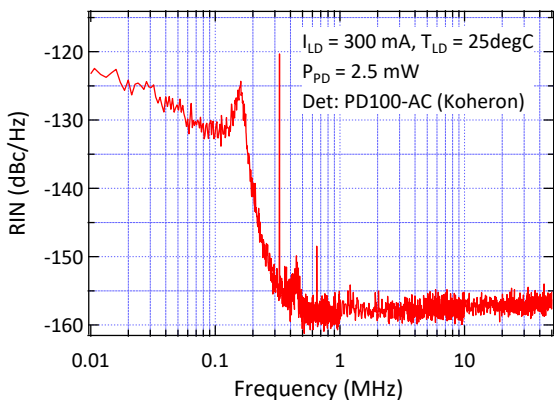
【Optical Characteristics】



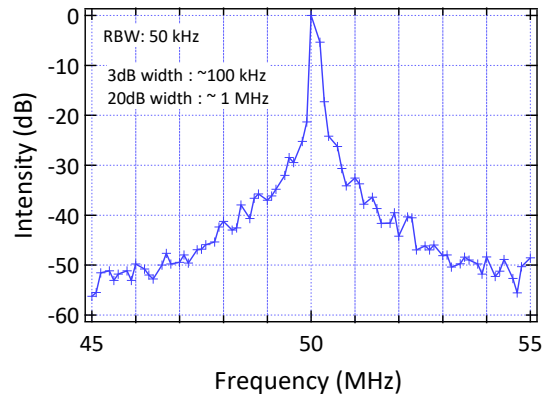
Output Power vs Wavelength



Output Spectra



Relative Intensity Noise



Beat frequency of two lasers

【Description】

ASE-free wavelength tunable lasers are now available in a compact package at a low price. Wavelength can be tuned manually by turning the micrometer head; LD current value setting and temperature control setting are done by front panel operation. In addition, current modulation and wavelength modulation (with PZT) are available as options, and wavelength locking, etc. can be performed for the target signal. In addition to light sources for spectroscopic measurement, the LDs are intended to be used for difference frequency generation for terahertz and infrared light, and wavelength stabilization light sources.

【Order Information】

RMOFL [AAAA] - B- C – (option1) – (option2) – (Option3)

AAAA: Wavelength, B: Mode-Hop-Free range, C: PM-Fiber Output Power (typ.)

Option 1: In-line Isolator (ILI)

Option 2: Free-Space Isolator (FSI or FSI2)

Option 3: LD current and wavelength modulation port (MOD)