

λ -Rapid series

High Scanning Rate ASE-Free Tunable Diode Laser

Key Features

- High-Speed Tuning (up to 600 nm/s)
- ASE-Free (SMSR > 70 dB),
Wide Range mode-hop-free tuning.
- Full Control by COM Port.
- Small and robust for OEM use.
- Low cost.



Parameter	Model				UNIT
	950	1040	1300	1580	
Wavelength Coverage	920 - 1000	980 - 1080	O-band	CL-band	nm
Mode-Hop-Free Range	40	50			nm
Absolute Accuracy	0.5				nm
Resettability	0.05				nm
Backlash	0.05				nm
Stability *1	0.05				nm
Maximum Scan Rate	250		400	600	nm/s
Digital Tuning Resolution	1				pm
Maximum PM-Fiber Output Power	40	50	30	30	mW
Isolation	Max. 30		Max. 100		dB
Spectral Purity	SMSR > 80				dB
Relative Intensity Noise	150 (> 0.5 MHz)				dBc/Hz
EPR	20				dB
Fiber Connector	FC/APC, slow axis aligned				
Triger Output	Drive: High during actuator operation. Constant: High during constant speed operation. Region: High during operation between two specified wavelengths.				
Package Type	W120 X H100 X L240		W100 X H100 X L200		mm
Chassis	Bench-Tio model or OEM model				

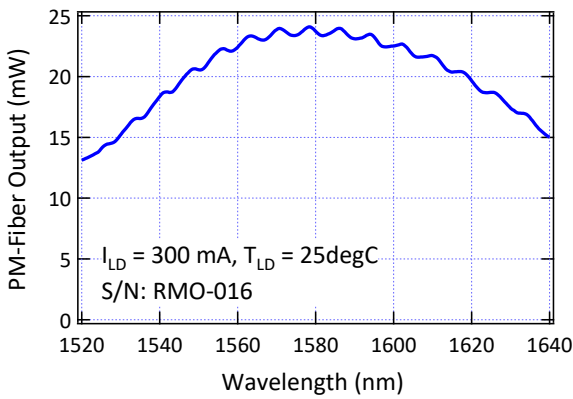
1. After warm-up, under constant temperature.



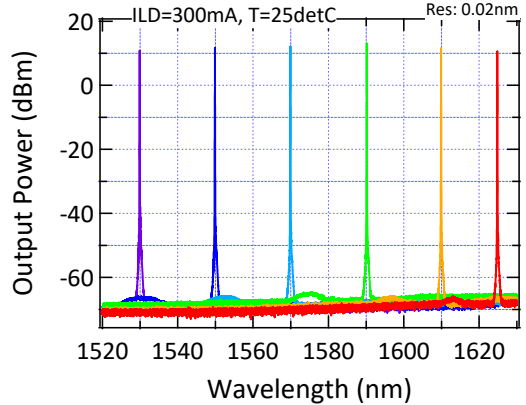
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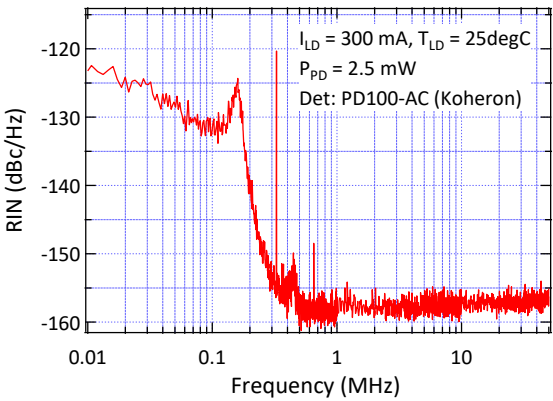
【Optical Characteristics】



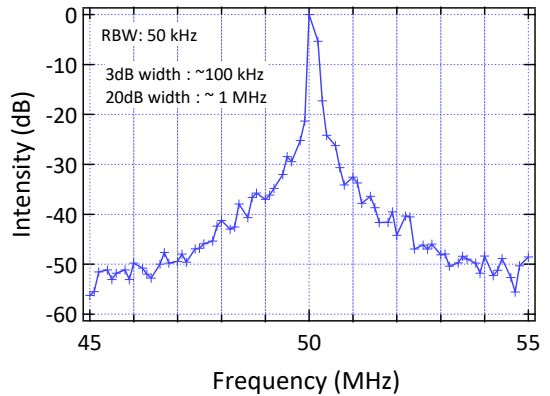
Output Power vs Wavelength



Output Spectra



Relative Intensity Noise



Beat frequency of two lasers

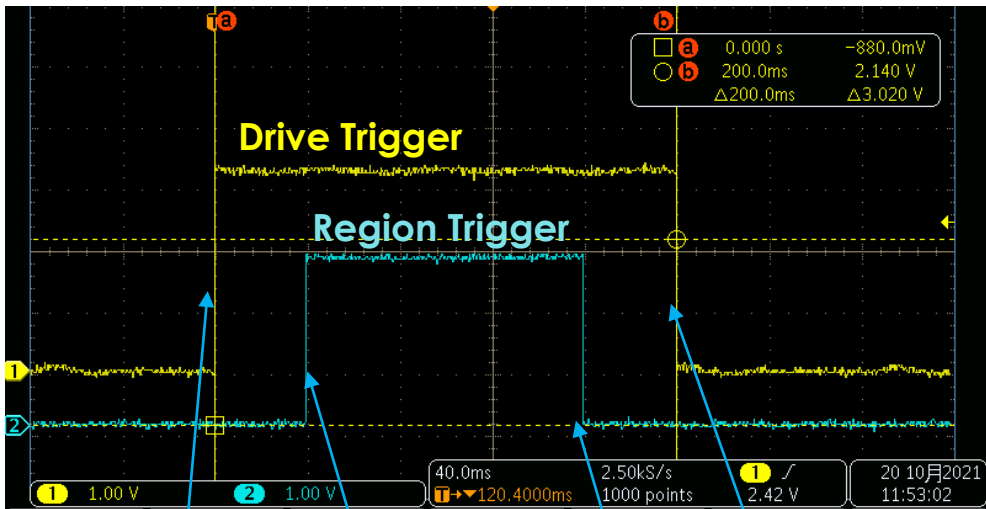
【Trigger】

<Tuning Configuration>

scan rate: 200 nm/s
scan range: start 1560 nm, target 1600 nm

<Region Trigger Configuration>

Short wavelength: 1568 nm
Long wavelength: 1592 nm



Drive Start @1560 nm

Region Trigger High @1568 nm

Drive Stop @1600 nm

Region Trigger Low @1592 nm