

633nm Fixed external cavity diode laser

TUNABLE LASERS (ECDL)



633nm Fixed external cavity diode laser Based on fixed outer cavity semiconductor technology, Precilasers can provide fixed outer cavity semiconductor lasers with a central wavelength of 633nm. The product adopts optical communication-level semiconductor laser packaging technology, combined with a driving source with high modulation bandwidth, to achieve characteristics such as narrow line width, low intensity noise, optional output mode and tunable.

- Narrow Linewidth Low Intensity
- Noise High
- Speed Tuning Possible Linear
- Polarization Excellent Beam Quality

Specifications

Parameter	Specification
Center Wavelength	633nm
Linewidth (1) (100µs integration time)	<200KHz
Package Type	Butterfly Package , Without drive , No isolator / System Integration, With current source and temperature control drive (Built-in isolator)
Output Mode	Free Space / Free Space / FC/APC (2) / Free Space / FC/APC (2)
Beam Quality	<1.3 / <1.3 / <1.1 / <1.3 / <1.1
Output Power	>15mw / >30mw / >15mw / >10mw / >30mw / >20mw
Tuning	Tunable / Not Tunable / Tunable / Not Tunable
Temperature Frequency Tuning Range	>5GHz / / / >5GHz / /
Polarization Extinction Ratio	>20dB
Power Stability (3 Hours RMS)	<1%
Intensity Noise (10Hz-10MHz integration)	<0.03% / <0.05% / <0.03% / <0.05%
Intensity Noise (10kHz)	<-140dBc/Hz / <-130dBc/Hz / <-140dBc/Hz / <-130dBc/Hz
Current Tuning Range	>500MHz / / / >500MHz / /
Current Tuning Bandwidth	>1MHz / / / >1MHz / /
Weight	Driver version included, <1.5kg
Operating Temperature	0-60°C
Power Consumption	<3W
Powered By	5VDC, 1A, power adapter included

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.