

High Contrast Grating Single-Mode Swept-Tunable VCSEL



BANDWIDTH10

CUTTING EDGE TUNABLE LASER SOLUTIONS for Sensing, OCT and Communications

VCSEL Chips, TO and TOSA packages



SFP+ transceivers and control electronics



Various wavelength bands available

1530nm – 1570nm
Tuning range >8nm

Applications:
FBG Sensors
Metrology
Biosensors
Gas Sensors (CO, CO₂, HCN, C₂H₂, H₂S)
Range Finding
FMCW LIDAR
Transceivers

1654nm
tuning range >4nm

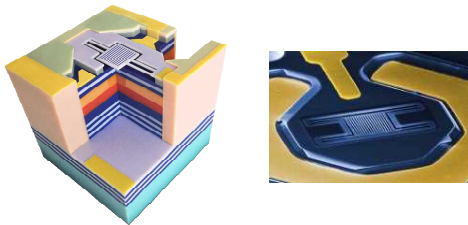
Applications:
Gas sensors (CH₄)
OTDR
Range Finding
Transceivers for optical communications at U-band

1060nm
tuning range >50nm

Applications:
Optical Coherence Tomography (OCT)
Swept source
Medical Imaging

High Contrast Grating Tuning Technology

Electrostatic MEMS tuning controlled by voltage.
Simple and continuous wavelength tuning.
Monolithic integrated fabrication process.



Fast mode hop-free wavelength tuning +200kHz
Includes integrated TEC for wavelength stabilization.
Available with flat window, ASP lens or fiber pigtail.
All pigtailed versions include an optical isolator

With a revolutionary wavelength tunable Vertical Cavity Surface Emitting Laser (VCSEL) technology we deliver cost-effective tunable solutions that are out of reach with conventional technologies.

Our VCSELs range in wavelength from 850 nm to 1700 nm for FBG Sensing, Biosensing, LIDAR, Swept-sources, OCT, Data-communications, and many other applications.

With a leading edge tunable VCSEL design, optoelectronic packaging and control electronics teams, we offer complete solutions with the laser ranging from TO and TOSA packages to SFP+ transceivers and control electronics.



video

Patented High Contrast Grating for Electrostatic MEMS tuning controlled by voltage
Monolithic growth and integrated fabrication process
GaAs and InP-based lasers available
High modulation bandwidth 10G
Swept-tuning up to 500 kHz
Mode-hop free



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