

SPECDILAS V series

Vertical Cavity Surface Emitting Laser (VCSEL)

**Tunable laser diodes for spectroscopy
with very low threshold currents (few mA)**

- single mode
- selected wavelengths from 750 – 960 nm
- circular beam profile
- low divergence
- minimal interference due to backreflection
- 2D arrays available



Applications

- spectroscopy
- optoelectronic instrumentation
- parallel optical data transfer

Parameters (partly dependant on mesa dimensions)

Material	GaAs / AlGaAs / InGaAs
Available wavelengths	various, selected, 750 – 960 nm
Output power, single mode	0,3 mW
Output power, multi mode	5 mW
Side mode suppression (SMSR)	> 20 dB
Linewidth	< 100 MHz
Current tunability	0,1 - 0,4 nm / mA
Temperature tunability	0,06 nm / K
Threshold current	2 - 8 mA
Beam divergence (farfield emission angle)	6 - 18 ° (FWHM)
Operating temperature range	15 - 40 °C

Construction

