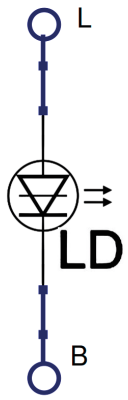
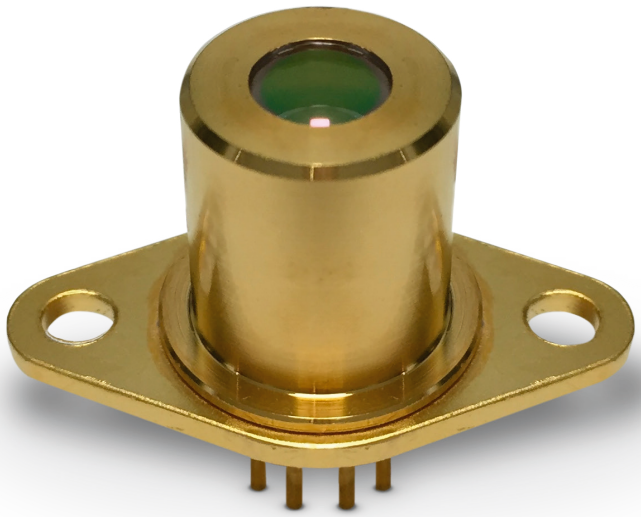
ALPES LASERS

pioneering photonics for a brighter future





SWIR Laser Diodes are supplied in a TO-66 package with collimated or divergent beam.

SWIR Laser Diodes

Short Wave Infrared Laser Diodes are continuous wave, multiple longitudinal mode Fabry-Perot devices emitting light over a bandwidth of ~20 nm with output power up to 50 mW. They are offered either as chip-on-carrier or encapsulated in a low power TO-66 package with collimated or divergent free-space beam output.

Based on InP technology, Alpes SWIR Laser Diodes emission can be tailored in the range from 1.45-2.2 microns with each design having a bandwidth of ~20 nm. Available wavelengths include the absorption bands of N_2O, H_2O, CH_4 and HCl among others.

KEY FEATURES

- Continuous Wave
- Low Dissipation
- High Beam Quality
- Small Footprint

KEY APPLICATIONS

- Gas Sensing (e.g. H_2O)
- Beacons
- Infrared Illumination

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SPECIFICATIONS

QUANTITY	ACRONYM	MIN	TYP	MAX	UNIT	NOTE
Output Power		5	20	70	mW	
Threshold Current		20	100	200	mA	
Operation Current		400	600	1000	mA	
Operation Voltage		1.5	2	2.5	V	
Packaging		TO-66				
Central Wavelength		1.45	1.86	2.2	µm	1
Spectral width		10	20	50	nm	2
Operation Temperature		10	20	50	°C	3
Dimensions	LxWxH		31.6 x 17.6 x 16.6		mm^3	4
Fast Axis Divergence			2	5	mrad	5
Slow Axis Divergence			2.5	5	mrad	6

These specifications may be changed without further notice.

1. Presently, devices centered at 1.47, 1.55, 1.63, 1.74, 1.83, 1.89, and 2.10 microns are in stock and available on a 8 weeks lead time. Please enquire for the possible lead times for other wavelengths
2. The envelope of a Fabry-Perot laser can vary from one laser to another or with varying operating conditions.
3. Performances are given for operation with the external temperature at room temperature. A TEC cooler is included to stabilize the chip temperature. Performance can be degraded if the external temperature rises.
4. Maximal outside dimensions
5. For collimated beam.
6. For collimated beam.

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