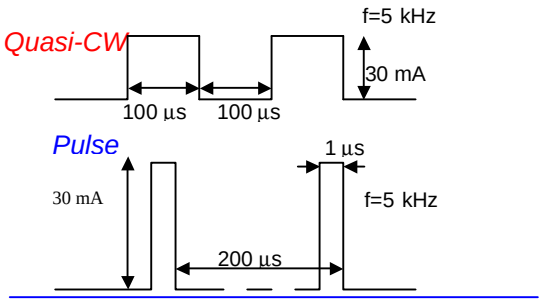
# LASER DIODES 1.6÷3.6 μm

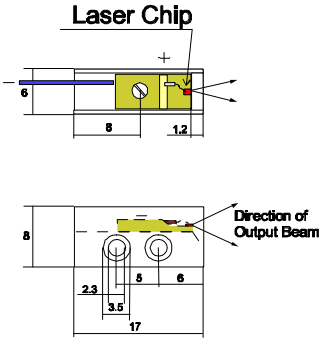
## Model LD320-LA 3.190÷3.290 mm

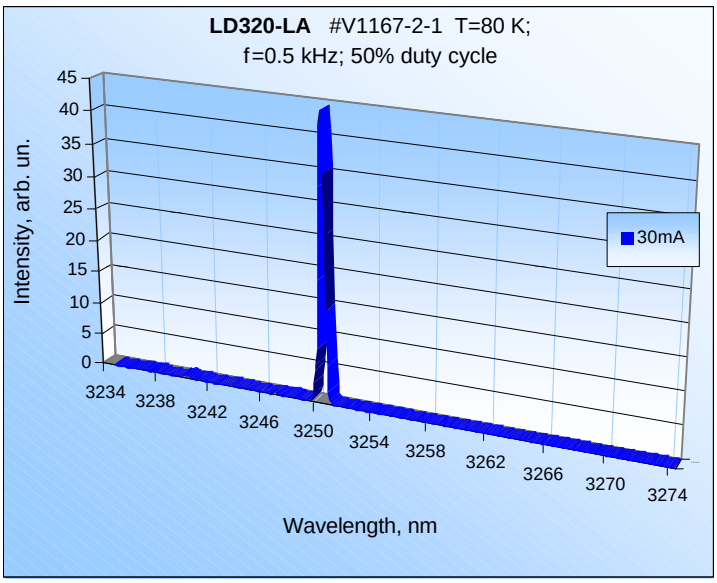
- LD320-LA is a laser for the spectral range 3.190 - 3.290μm based on InAsSbP/InAsSb/InAsSbP DHS laser diodes with optical waveguides.
- Laser Diode LD320-LA can operate at cryogenic temperature (77 K) and up to 100 K in both quasi-CW and pulsed regimes.
- In LD320-LA laser diode is mounted on Laser Analytic (LA) type carrier. User should provide placing of this laser in cooling system.

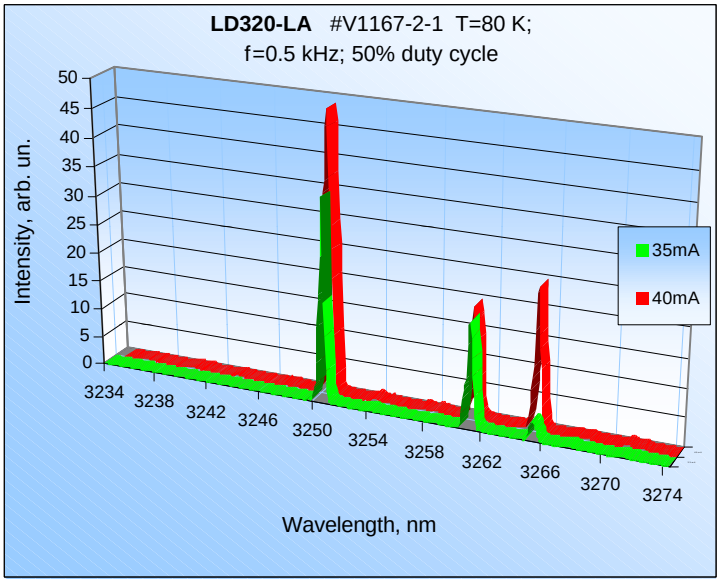
| Characteristics | Symbol | LD320-LA | Unit |
|---|---|---|---|
| **Laser diode parameters** | | **#V1167-2-1** | |
| Optical output power (quasi-CW regime) | $P_{qCW}$ | 0.8 | mW |
| Optical output power (pulsed regime) | $P_{peak}$ | 16 | mW |
| Threshold current | $I_{TH}$ | 25 | mA |
| Beam divergence (FWHM) | $\Theta_{II} \times \Theta_{\perp}$ | 30 x 50 | deg |
| Spectral width | $\Delta\lambda$ | < 60 | MHz |
| Mode structure in determinated current and temperature range | - | SLM | - |
| Package | - | LA | - |
| **Maximum ratings** | | | |
| Laser drive current (quasi-CW) | $I_{LDmax}$ | <60 | mA |
| Operating temperature range | $T_{op}$ | 30÷110 | K |

**Recommended regimes of operation**

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