

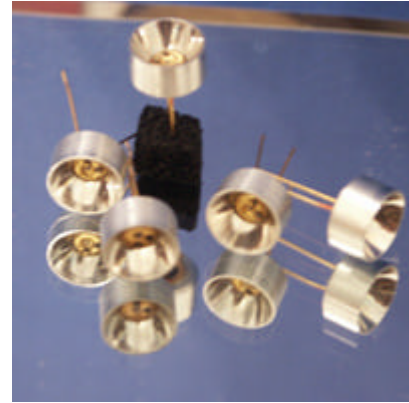
# LIGHT EMITTING DIODES 1.6÷4.6 μm

## Model LED21-PR 2.15 mm 1.1 mW

•Light Emitting Diodes **LED21-PR** are designed for emitting at a spectral range around 2150 nm. Heterostructures (HS) are grown on GaSb substrates. The output emission can be modulated by current flowing in a forward direction.

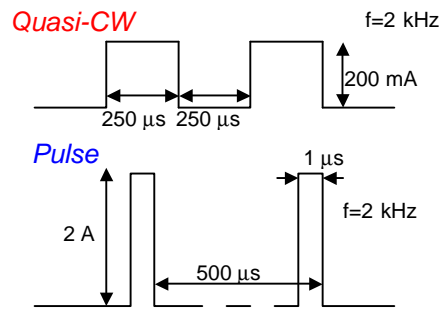
•Light Emitting Diodes **LED21-PR** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more then 10000 hours.

•Related products: **LED21-PR** can be used in optical pair with our photodiodes **PD24**. Our standard **LED Driver** provides power supply of **LED21-PR** in two recommended here regimes (Quasi-CW and Pulsed).



| Parameters                      | Min                            | Typ  | Max  |
|---------------------------------|--------------------------------|------|------|
| Wavelength, μm                  | 2.10                           | 2.15 | 2.19 |
| FWHM, μm                        | 0.15                           | 0.20 | 0.25 |
| Optical Power, mW               |                                |      |      |
| Quasi-CW @ 200 mA               | 0.9                            | 1.1  | 1.3  |
| Pulsed@1A                       | 25                             | 28   | 30   |
| Switching Time, ns              | 10                             | 30   | 50   |
| Operating Temperature Range, °C | -240÷+50                       |      |      |
| Emitting Area, μm               | 300x300                        |      |      |
| Soldering temperature           | 260 °C                         |      |      |
| Package                         | TO-18 with Parabolic Reflector |      |      |

### Recommended regimes of operation



### Package TO-18 with Reflector

