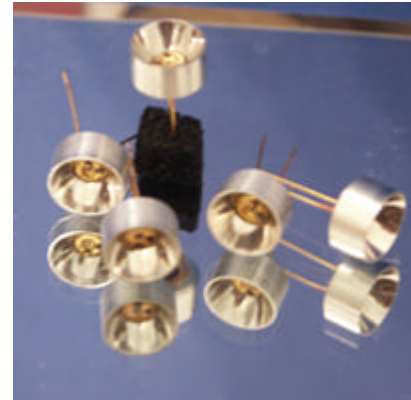


# LIGHT EMITTING DIODES 1.6÷4.6 μm

## Model LED19-PR 1.95 mm 1.0 mW

- Light Emitting Diodes **LED19-PR** are designed for emitting at a spectral range around 1950 nm. Heterostructures (HS) are grown on GaSb substrates. The output emission can be modulated by current flowing in a forward direction.
- Light Emitting Diodes **LED19-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: **LED19-PR** can be used in optical pair with our photodiodes **PD24**. Our standard **LED Driver** provides power supply of **LED19-PR** in two recommended here regimes (Quasi-CW and Pulsed).



Parameters	Min	Typ	Max
Wavelength, μm	1.90	1.95	1.99
FWHM, μm	0.15	0.20	0.25
Optical Power, mW			
Quasi-CW @ 200 mA	0.8	1.0	1.2
Pulsed @ 1A	20	25	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

