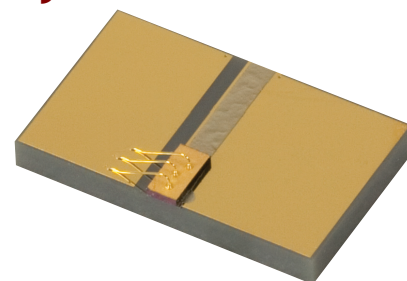


## 1550 nm Fabry-Perot Laser Diode



**FPL1001C**

### Description

The FPL1001C 1550 nm Fabry-Perot Laser Diode is based on quantum well epitaxial layer growth and a highly reliable ridge waveguide structure. This diode features high optical output power and slope efficiency. The FPL1001C is a chip on submount measuring 3 mm x 5 mm and is ideal for incorporation into OEM solutions.

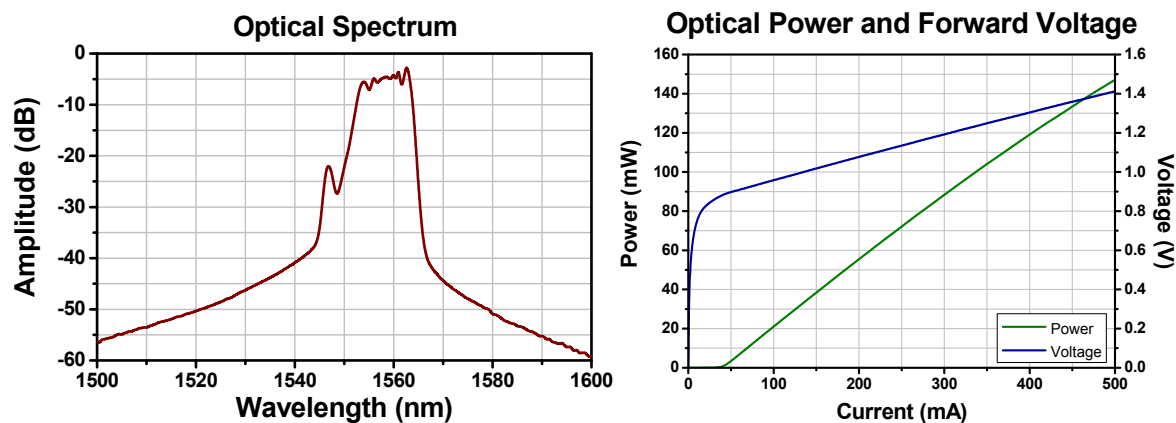
### Specifications

CW,  $T_{\text{CHIP}} = 25\text{ }^{\circ}\text{C}$

| FPL1001C                                |                      |         |          |         |
|-----------------------------------------|----------------------|---------|----------|---------|
|                                         | Symbol               | Min     | Typical  | Max     |
| <b>Electrical</b>                       |                      |         |          |         |
| Operating Current                       | $I_{\text{OP}}$      | -       | 400 mA   | 500 mA  |
| Center Wavelength                       | $\lambda_{\text{C}}$ | 1530 nm | 1550 nm  | 1570 nm |
| Spectral Bandwidth (RMS)                | $\Delta\lambda$      | -       | 7 nm     | 12 nm   |
| Output Power                            | $P_{\text{OUT}}$     | 140 mW  | 150 mW   |         |
| Threshold Current                       | $I_{\text{TH}}$      | -       | 35 mA    | 55 mA   |
| Reflectivity (Front / Back)             | R                    | -       | 1% / 90% | -       |
| Forward Voltage                         | $V_{\text{F}}$       | -       | 1.4 V    | 1.8 V   |
| Transverse Beam Divergence Angle (FWHM) | $\theta_{\text{T}}$  | -       | 31°      | 37°     |
| Lateral Beam Divergence Angle (FWHM)    | $\theta_{\text{L}}$  | -       | 18°      | 23°     |



## Performance Plots



## Drawings

