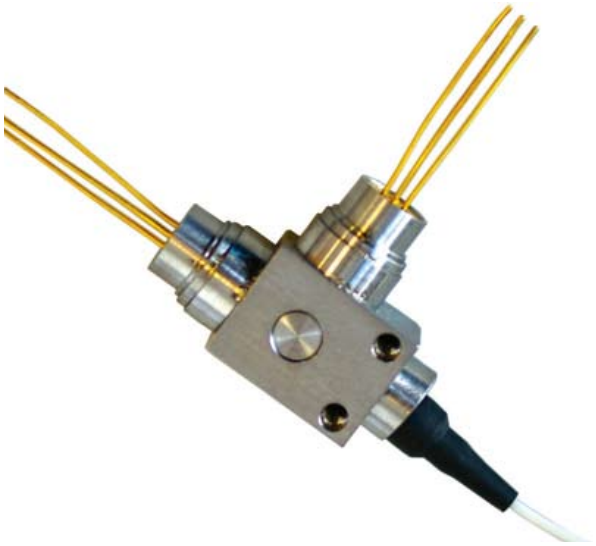
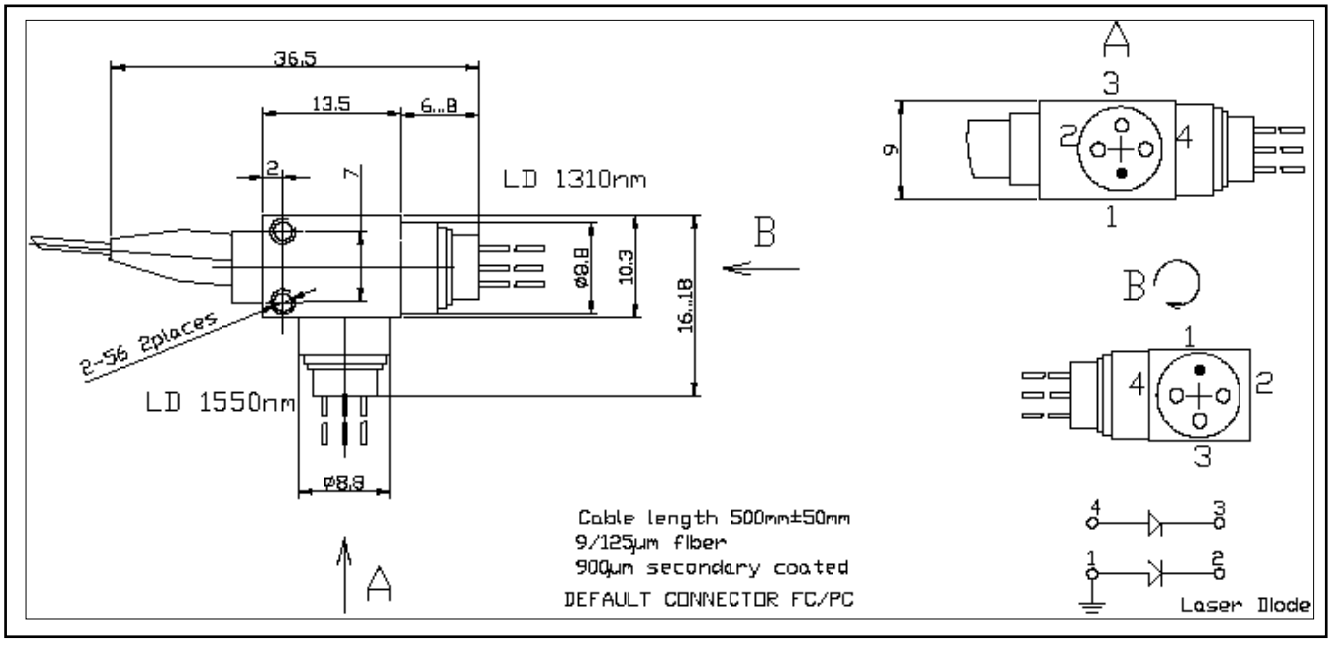
# Model FOD3505
## Dual Laser Diode Module 1310/1550 nm for OTDR

**DESCRIPTION**

Fabry-Perot lasers provide good stability in both OTDR and Light Source modes. Internal monitor photodiode is necessary for Automatic Power Control. Low threshold and operating current guarantee low self heating and excellent reliability.

RoHS Compliant



| *ABSOLUTE MAXIMUM RATINGS* | | | |
|---|---|---|---|
| ***Parameter*** | ***Symbol*** | ***Ratings*** | ***Unit*** |
| Maximum CW Output Power | Pmax | 2 | mW |
| Laser Diode Reverse Voltage | Vrld | 2 | V |
| Operating Temperature | Top | -10 to +50 | °C |
| Storage Temperature | Tst | -20 to +70 | °C |
| Photodiode Reverse Voltage | Vrpd | 20 | V |

| *TECHNICAL SPECIFICATIONS at 23°C* | | | | | | |
|---|---|---|---|---|---|---|
| ***Parameter*** | ***Symbol*** | ***Test conditions*** | ***Min.*** | ***Typ.*** | ***Max.*** | ***Unit*** |
| **Central Wavelength** | **λc** | **Pcw=1mW** | **1290** | **1310** | **1330** | **nm** |
| Spectral Width | Δλ | Pcw=1mW | - | 1 | 2 | nm |
| CW Output Power | Pcw | SMF28e | 1.5 | - | - | mW |
| Pulse Output Power | Pp* | 10% top slope | 28 | 30 | - | mW |
| Threshold Current | Ith | 10μW | 3 | 5 | 15 | mA |
| Operation Current | Iop | Pp=15mW | - | - | 250 | mA |
| Operation Voltage | Vop | Pp=15mW | - | 1.1 | 1.5 | V |
| Monitor Current | Im | Pcw=1mW | 0.1 | 0.5 | 0.9 | mA |
| **Central Wavelength** | **λc** | **Pcw=1mW** | **1530** | **1550** | **1570** | **nm** |
| Spectral Width | Δλ | Pcw=1mW | - | 1.5 | 3 | nm |
| CW Output Power | Pcw | SMF28e | 1.5 | - | - | mW |
| Pulse Output Power | Pp* | 10% top slope | 28 | 30 | - | mW |
| Threshold Current | Ith | 10μW | 3 | 10 | 20 | mA |
| Operation Current | Iop | Pp=15mW | - | - | 250 | mA |
| Operation Voltage | Vop | Pp=15mW | - | 1.1 | 1.5 | V |
| Monitor Current | Im | Pcw=1mW | 0.1 | 0.5 | 1 | mA |
| ***duty rate ≤1%, pulse drop <10 %*** | | | | | | |