# Model FOD3508

## Dual Laser Diode Module 1310/1550 nm with integrated isolators

**DESCRIPTION**

The FOD 3508 Dual Laser Module is designed specifically for applications requiring superior output stability such as Fiber Optic Test or Monitoring Systems, Laser Sources.

RoHS Compliant

- High isolation
- Two wavelengths at one output
- Low threshold current, low operating current
- High output power in SM fiber

| *ABSOLUTE MAXIMUM RATINGS* | | | |
|---|---|---|---|
| ***Parameter*** | ***Symbol*** | ***Ratings*** | ***Unit*** |
| Maximum CW Output Power | Pmax | 1.5 | 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 | - | 2 | 4 | nm |
| CW Output Power | Pcw | SMF28e | 1.1 | 1.4 | - | mW |
| Threshold Current | Ith | 10μW | 3 | 6 | 15 | mA |
| Operation Current | Iop | Pcw=1mW | - | 18 | 30 | mA |
| Operation Voltage | Vop | Pcw=1mW | - | 1.2 | 1.5 | V |
| Monitor Current | Im | Pcw=1mW | 0.1 | 0.5 | 1.5 | mA |
| Internal Optical Isolator | Iso | Pcw=1mW | 40 | - | - | dB |
| Polarization Sensitivity | PDL | Pcw=1mW | - | - | 0.005 | dB |
| Tracking error | Er | To=-10 to +50°C, APC | - | 0.4 | 1 | dB |
| **Central Wavelength** | **λc** | **Pcw=1mW** | **1530** | **1550** | **1570** | **nm** |
| Spectral Width | Δλ | Pcw=1mW | - | 2 | 4 | nm |
| CW Output Power | Pcw | SMF28e | 1.1 | - | - | mW |
| Threshold Current | Ith | 10μW | 3 | 10 | 20 | mA |
| Operation Current | Iop | Pcw=1mW | - | 30 | 40 | mA |
| Operation Voltage | Vop | Pcw=1mW | - | 1.2 | 2 | V |
| Monitor Current | Im | Pcw=1mW | 0.1 | 0.5 | 1.5 | mA |
| Internal Optical Isolator | Iso | Pcw=1mW | 40 | - | - | dB |
| Polarization Sensitivity | PDL | Pcw=1mW | - | - | 0.005 | dB |
| Tracking error | Er | To=-10 to +50°C, APC | - | 0.4 | 1 | dB |