

FOL-1550 1550nm Fiber Optic LASER Source And Detector Module



SPECIFICATIONS

- Provision for analog input, TTL input and RS-232 input
- Displays to indicate forward voltage across and forward current flowing through Lasersource
- Voltage and current is varied using intensity control potentiometer

Source

- Type : LASER
- Central wavelength : 1550nm
- Spectral width : 1nm
- Output power : 1.5mW
- Threshold current : 15mA Maximum

Detector

- Type : PIN TIA photo diode
- Spectral Bandwidth : 1150nm ~ 1600nm
- Sensitivity : -37dbm
- Gain : 200 mv/□w
- Bandwidth : 155MHz
- Data rate : 155Mbps

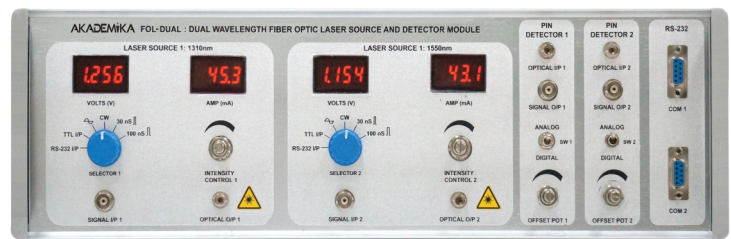
Pulse generator

- Pulse width : Selectable from 30ns and 100ns
- Pulse amplitude : 4Vpeak

EXPERIMENTS

- I-V characteristics of LASER
- P-I characteristics of LASER
- Digital data transmission
- Analog signal transmission
- PC to PC communication
- Used with FOL-PASSIVE to study passive components
 - Isolator
 - Attenuator
 - Coupler
- Used with FOL-PASSIVE and FOL-FIBER for building block of OTDR

FOL-DUAL Dual Wavelength Fiber Optic LASER Source And Detector Module



SPECIFICATIONS

- Provision for analog input, TTL input and RS-232 input
- Displays to indicate forward voltage across and forward current flowing through LASER source
- Voltage and current is varied using intensity control potentiometer

Source-1

- Type : LASER
- Central wavelength : 1310nm
- Spectral width : 1nm
- Output power : 1.5mW
- Threshold Current : 15mA Max

Source-2

- Type : LASER
- Central wavelength : 1550nm
- Spectral width : 1nm
- Output power : 1.5mW
- Threshold Current : 15mA Max

Detector-1

- Type : PIN photo diode
- Spectral bandwidth : 1250nm ~ 1600nm
- Responsivity : 0.8 A/W
- Bandwidth : 1.5 GHz
- Return loss : 40dB
- Max. supported data rate : 3mbps

Detector-2

- Type : PIN TIA photo diode
- Spectral bandwidth : 1150 ~ 1600nm
- Sensitivity : - 37 dbm
- Signal bandwidth : 155 MHz
- Data rate : 155 Mbps

Pulse Generator

- Pulse width : Selectable from 30ns & 100ns
- Pulse amplitude : 4Vpeak

EXPERIMENTS

- I-V characteristics of LASER
- P-I characteristics of LASER (FOL-PM is required)
- Digital data transmission
- Analog signal transmission
- PC to PC Communication (full duplex)