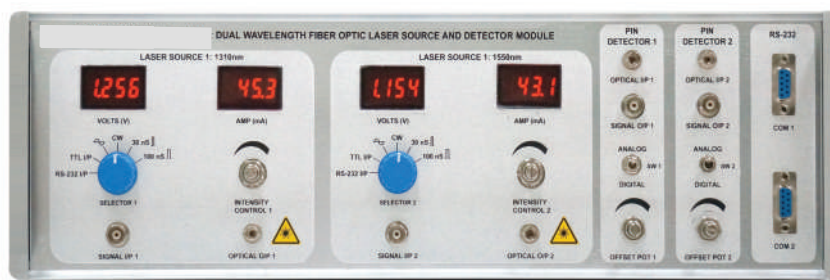


VS-SDM : Dual Wavelength Fiber Optic Laser Source And Detector Module



FEATURES

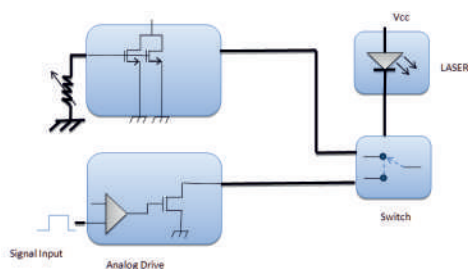
- Provision for Analog input, TTL input and RS-232 input
- Display to indicate forward voltage across and forward current flowing through LASER source
- Voltage and current is varies using intensity controle potentiometer
- Built in pulse generator with pulse widths of 30ns and 100ns
- All Connectors are suitable for ST type of connector interface

SPECIFICATIONS

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

LASER DRIVER CIRCUIT

Digital and Continuous Wave Driver Circuits



- Two driver modes are available in this system, one for pulse operation and analog transmission, other for continuous wave operation and Digital Transmission
- These are controlled by rotary switch available on front panel.

Source - 1

- Type : LASER
- Central Wavelength : 1310nm
- Spectral Width : 2nm
- Output Power : 0.8mW
- Threshold Current : 5mA

Source - 2

- Type : LASER
- Central Wavelength : 1550nm
- Spectral Width : 1nm
- Output Power : 0.9mW
- Threshold Current : 5mA

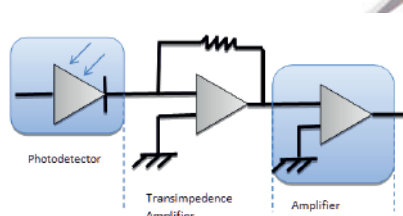
Detector - 1

- Type : PIN photo diode
- Spectral Bandwidth : 1250nm ~ 1600nm
- Responsivity : 0.8 A/W
- Bandwidth : 1.5 GHz

Detector - 2

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

PHOTODETECTOR CIRCUIT



- Photodetector produces current in response to optical input.
- This current produced is then converted to voltage and amplified by amplifier.
- This amplified output is measured as electrical output

Pulse Generator

- Pulse Width : Selectable from 30ns and 100ns
- 30ns Pulse Amplitude : 3V
- 100ns Pulse Amplitude : 4V

ACCESSORIES

- ST-ST Patch Cord - 1mtr : 07 No.
- Power Cord : 01 No.
- BNC-BNC Cable : 03 No.
- BNC-BNC 'T' Conn. : 01 No.
- RS232 Cable : 02 No.