

## Instrumentation for Photonics Applications

### STANDARD & CUSTOM PHOTONICS INSTRUMENTS & OEM SUB-SYSTEMS

Applications in:

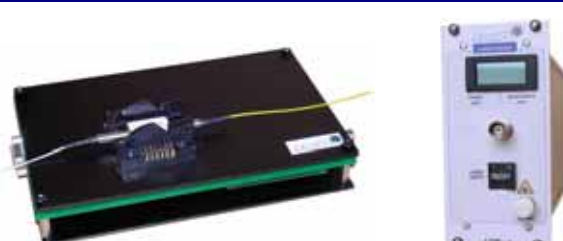
Test & Measurement - Research & Development - Production & Assembly

#### LNP2: Low Noise Photoreceivers



- Transimpedance Gains from  $10^3$ V/A to  $10^8$ V/A
- Additional AC coupled gain stage (x1 to x1000)
- Separate AC and DC coupled outputs
- CW input power 0.75pW - 2mW
- Low NEP at maximum gain
- Bandwidth from DC up to 1MHz
- Customer specified photodiode
- Benchtop, rack mounted & OEM versions

#### Laser Drivers & Modules



- Driver for Laser Diode, SLD, SOA, Raman Pump
- Drive Currents up to 1A and TEC to 2.5A
- Integrated demountable connectors for easy device connection or changeover
- Reconfigurable pin connections to device
- Driver software for full PC control & monitoring of device including LIV plotting facility
- Continuous traces of device drive parameters
- Custom & OEM Modules available

#### Erbium Doped Fibre Amplifiers and Broadband Sources



EDFA-1



EDFA/BBS Combined



BBS-1

##### EDFA-1

- Small signal gains in excess 30dB
- Saturated output powers in excess of + 15dBm
- Continuously variable pump powers
- FC/APC connectors as standard
- Optically isolated input & output
- Custom options available
- 19" rack mounted and/or benchtop use

##### BBS-1

- Spectral Range 1525-1565nm
- BBS output powers in excess of 15dBm
- User control of gain/output power
- Optically isolated output

##### EDFA/BBS

- Combined unit with specs of EDFA-1 & BBS-1
- Uses an external patchcord to link to integral loop mirror

#### Design & Production of Custom Instruments & OEM Sub-systems

OptoSci has extensive experience in the design and production of custom and OEM photonics instruments and sub-systems for our worldwide industrial and research clients, based on our laser diode drivers, TEC controllers, photoreceivers, power meters, lock-in amplifiers, digital & analogue signal processing systems, system control & display modules, etc. Consequently if you have a particular requirement for a custom photonics instrument, or an OEM sub-system to integrate into your own system, please let us know and OptoSci's experienced technical staff would be pleased to examine and discuss the application, design and integration process further with you.

Since OPTOSCI are committed to continuously improving the design and performance characteristics of our products, these specifications are subject to change without notice.

Date: October 2005

