



Wavelength multiplexing / demultiplexing



A new generation of fibre optic transmission systems have appeared in the 90's, using the wavelength multiplexing/demultiplexing techniques (WDM). The idea is to inject simultaneously different wavelengths in the same fibre, increasing the data transmission capacity of a single fibre.

This WDM kit, coupled with the Erbium Doped Fibre Amplifier, allows the experimental study of the behavior of an Erbium Doped Fibre Amplifier, working in multi-wavelength mode.

Applications

- Laser diodes characterization
- Fiber optic coupler characterization
- Four wavelength multiplexing.
- Option: ADD&DROP multiplexer assembling.

Coupled with the erbium doped fiber amplifier training kit:

- study of an erbium doped fiber amplifier,
- working in multi-wavelength mode.

Features

- 4 DFB laser diodes @ 1535, 1543, 1550 and 1560 nm, 1 mW,
- 6 Patchcords E2000/APC Diamond connectors
- CW or analogical modulation (100 kHz) 1 Optical isolator
- 1 Fiber optic coupler 1x4