

WDM TRAINING KIT WAVELENGTH MULTIPLEXING



Features

- ✓ Comprehensive teaching & training manual
- ✓ Rack mounted components
- ✓ Eye safe connectors
- ✓ Competitive pricing

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 behaviour of an erbium doped fibre amplifier, working in multi-wavelength mode.

COMPONENTS INCLUDED

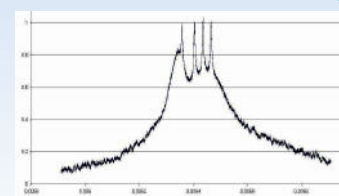
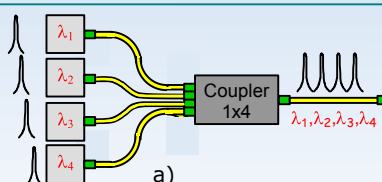
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| 4 DFB laser diodes @ 1535, 1543, 1550 and 1560 nm, 1 mW, CW or analogical modulation (100 kHz) | 6 Patchcords E2000/APC Diamond connectors |
| 1 Optical isolator | OPTION : It is also possible to add a circulator and a fiber Bragg grating, in order to make an Add-Drop multiplexer |
| 1 Fiber optic coupler 1x4 | |

PRACTICAL EXPERIMENTS

- 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



- a) Wavelength multiplexing
- b) Output signal of the analyser showing 4 single mode DFB lasers amplified in an erbium doped fiber amplifier
- c) Schematic diagram of the Add-Drop multiplexer

