

FOL-PASSIVE

Fiber Optic Passive Component Module



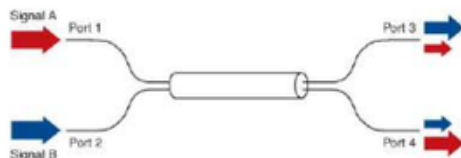
FEATURES

- It consists of industrial grade passive components like coupler, isolator, attenuator and WDM

SPECIFICATIONS

Coupler

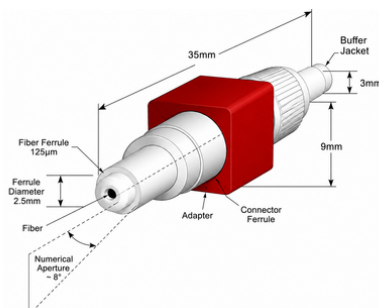
- Coupler is a passive component capable of combining two or more inputs into a single output.



- Operating Wavelength : 1310nm and 1550nm
- Fiber Type : Single mode fiber
- Coupling Ratio : 48.90 : 47.60
- Bandwidth : ± 40 nm
- Insertion Loss : 3.23/3.46 dB

Isolator

- Passive magneto-optic device that only allows light to travel in one direction



- Protect a source from back reflections or signals that may occur after the isolator
- Operating Wavelength** : 1310nm 1550nm
- Fiber Type** : Single mode fiber Single mode fiber
- Insertion Loss** : 0.44dB 0.40dB
- Isolation Loss** : 32.80dB 30.37dB
- Return Loss (in /out)** : >60/55dB >60/55dB

Attenuator

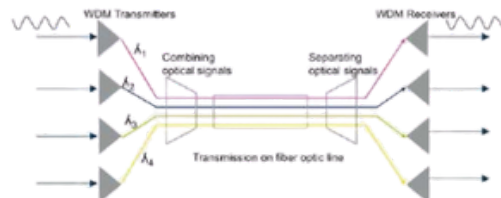
- An optical attenuator is a device used to reduce the power of an optical signal.



- Operating Wavelength : 1310nm and 1550nm
- Attenuation Level : 10dB ± 1.0
- Return Loss : ≤ -24 dB
- Repeatability : ± 0.6 dB

2X1 WDM

- WDM combines multiple optical signals of different wavelengths onto a single optical fiber.



- Wavelength Range : 1310nm / 1550nm
- Fiber Type : Single mode
- Insertion Loss : 0.03dB @ 1310, 0.07dB @ 1550
- Isolation (Center Wavelength) : 26.32 dB
- Bandwidth : ± 20 nm

EXPERIMENTS

- To Measure the attenuation in fiber optic attenuator
- To Measure insertion loss of fiber optic isolator
- To Measure isolation rate of fiber optic isolator
- To Measure insertion losses of fiber optic coupler
- To Measure coupling coefficient in fiber optic coupler
- To Measure the insertion losses and coupling coefficient in fiber optic multiplexer
- Wavelength division multiplexing and de-multiplexing of analog / digital signals over 1310nm and 1550nm wavelengths
- Note : FOL-DUAL is required