

WAVELENGTH DIVISION MULTIPLEXING

FWDM Device

Filter WDM separating a 1625 nm monitoring band from 1310/1490/1550 nm traffic, with 30 dB isolation.



Key Features

- Separates a 1625 nm monitoring band from live traffic
- Transmission band 1600 nm to 1670 nm, reflection band 1260 nm to 1580 nm
- Transmission band isolation ≥ 30 dB
- Insertion loss ≤ 0.8 dB transmission, ≤ 0.4 dB reflection
- Passive — no power required

Applications

- In-service OTDR monitoring of live fiber
- PON monitoring and fault location
- Out-of-band supervisory channels
- Test access on working links

Overview

A filter WDM splits one band away from the rest of the spectrum on a fiber. The common use is out-of-band monitoring: 1625 nm is reserved for test equipment precisely because it sits above live traffic, and this device is built to that split.

The transmission band covers 1600 nm to 1670 nm and the reflection band 1260 nm to 1580 nm, so an OTDR can be coupled onto a working fiber without disturbing the 1310, 1490 or 1550 nm services on it. Transmission-band isolation is 30 dB or better.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Transmission Band	1600 – 1670	nm	T1625
Reflection Band	1260 – 1580	nm	R1310 / 1490 / 1550
Insertion Loss	≤ 0.8	dB	Transmission band
Insertion Loss	≤ 0.4	dB	Reflection band
Isolation	≥ 30	dB	Transmission band
Isolation	≥ 15	dB	Reflection band

Order or request a quote

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