

BROADBAND WDM's

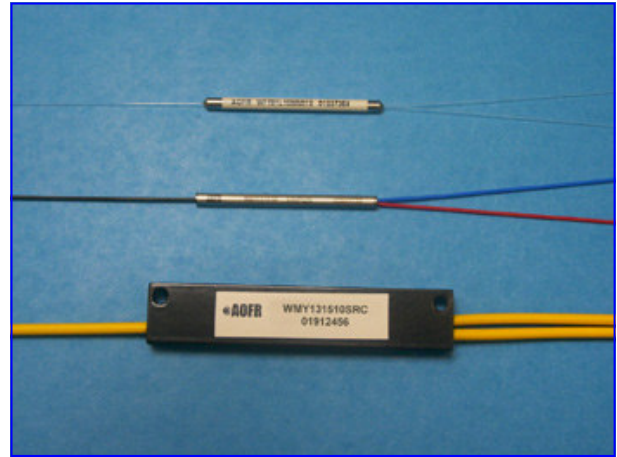
AOFR's 1310/1550nm WDM's offers superior optical performance in combining or dividing 1310 nm and 1550 nm optical signals. Low insertion loss, low PDL, high isolation, and high directivity are achieved by utilizing AOFR's advanced fused biconic taper technology and state-of-the-art manufacturing process. For demanding demultiplexing applications, higher isolation versions are also available.

FEATURES

- All fiber construction - high reliability performance
- Suited to standard 1310nm and 1550nm sources
- Low insertion loss for multiplexing
- High and very high isolation for demultiplexing
- High directivity – low crosstalk
- Variety of package and pigtail options
- Factory connectorization available
- Custom Packaging available

APPLICATIONS

- Multiplexing/demultiplexing
- Double system capacity over a single fiber
- Bidirectional communication over a single fiber
- CATV networks
- Fiber optic test equipment



SPECIFICATIONS

| Configuration | 1x2 | | |
|---|-----------------------------------|---------------------------------|--------------------------------------|
| Center Wavelengths | 1310nm and 1550nm | | |
| Bandpass | 1290-1330nm and 1530-1570nm | | |
| | Multiplexer/ Demultiplexer | High Isolation Demultiplexer | Very High Isolation Demultiplexer |
| Maximum Insertion Loss (dB) | 0.3 | 0.7 | 1.0 |
| Minimum Wavelength Isolation (dB) | 15.0 | 30.0 | 45.0 |
| Typical Isolation for ±10nm bandpass (dB) | 20.0 | 40.0 | 60.0 |
| Return Loss/Directivity | >55dB | | |
| Operating Temperature | -40°C to 85°C | | |
| Fiber type | Corning SMF28e Photonic (200kpsi) | | |

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ORDERING INFORMATION

| Component Type | | Catalog Number | | | Connector Option ¹ | |
|-------------------------------|---|----------------|------|----|-------------------------------|-----------------|
| | | Y | 1315 | 10 | | |
| WM | Standard Isolation | | | | blank | No connectors |
| WMH | High Isolation ² | | | | AFC | FC angle polish |
| WMHH | Very High Isolation ² | | | | ASC | SC angle polish |
| Package/Pigtail Option | | | | | ALC | LC angle polish |
| XP | 45mm long x Ø3mm tubular 250µm acrylate coating | | | | FCU | FC Ultra polish |
| XL | 46mm long x Ø3mm tubular 0.9mm loose tube buffer | | | | SCU | SC Ultra polish |
| SRC | 75 x 15 x 6mm ruggedized 3mm reinforced cable | | | | LCU | LC Ultra polish |
| AFNL | FO-2 Fiber Organizer 0.9mm loose tube buffer | | | | STU | ST Ultra polish |
| AFNC | FO-2 Fiber Organizer 3mm reinforced cable | | | | | |

¹ Connector return loss:
Angle polish : 65dB minimum
Ultra polish: 57dB minimum

² Available only in Fiber Organizer package

PACKAGE OUTLINES

