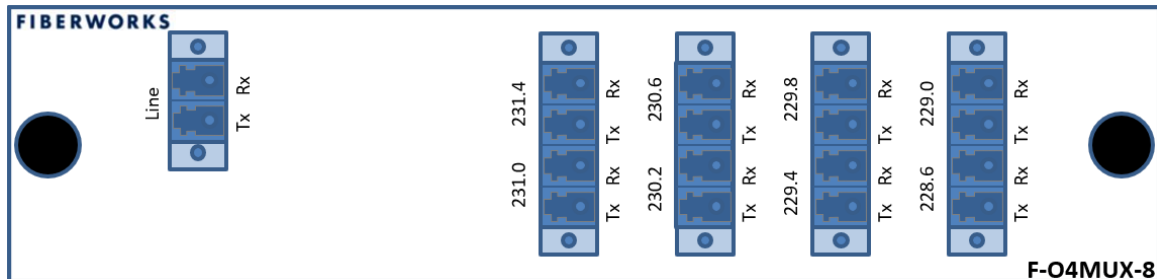


F-O4MUX-8-LU

8 channel O-band DWDM mux+demux



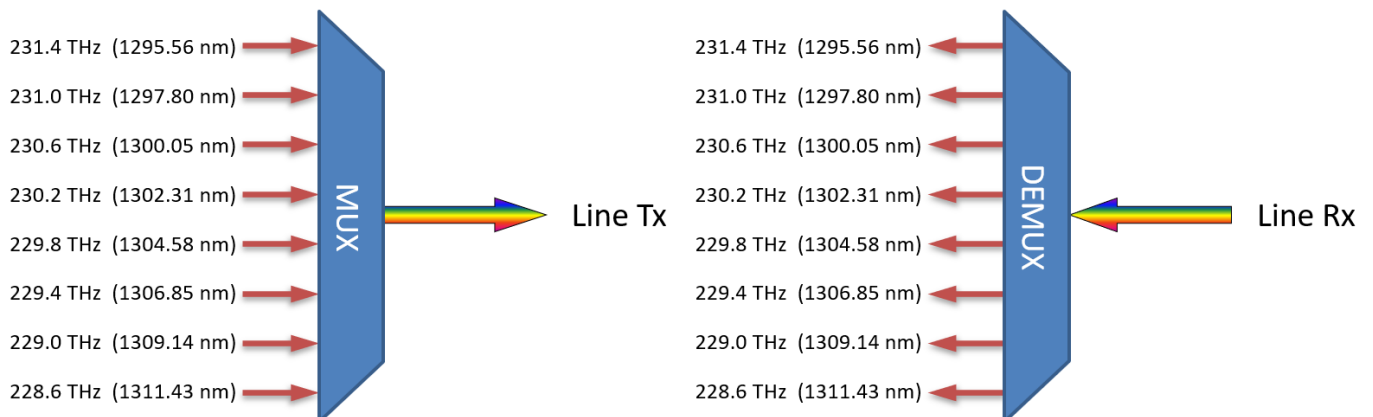
DESCRIPTION

This compact DWDM multiplexer/demultiplexer covers 8 DWDM channels in the O-band, i.e. around 1310 nm. It is thus useful for 100G PAM4 signals which can get longer reach in this part of the spectrum due to the negligible chromatic dispersion.

FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 8-channel DWDM mux/demux, 400 GHz spacing
- All channels fit within any standard 1310 nm wideband upgrade port
- Can also be used as standalone DWDM mux/demux
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 25G, 100G etc.)
- Two modules fit in 1U in 19" rack
- LC connectors

FUNCTIONAL DESCRIPTION



TECHNICAL DATA

| Parameter | Unit | Value |
|--|--------------|-------------------------|
| Max insertion loss (module / link) | dB | < 3.5 / < 4.5 |
| Typical insertion loss (module / link) | dB | 2.0 / 2.5 |
| Channel spacing | GHz | 400 (\approx 2.2 nm) |
| Center Wavelength Accuracy | nm | \pm 0.1 |
| Channel Flatness | dB | < 0.4 |
| Channel Passband (@ - 0.5 dB bandwidth) Min. | nm | 0.22 |
| Channel Ripple | dB | \leq 0.50 |
| Adjacent channel isolation | dB | \geq 25 |
| Non-adjacent channel isolation | dB | \geq 40 |
| Polarization dependent loss | nm | \leq 0.20 |
| PMD | ps | \leq 0.10 |
| Directivity | dB | \geq 50 |
| Return Loss | dB | \geq 45 |
| Power Handling | mW | < 300 |
| Operating temperature | $^{\circ}$ C | -40 to +85 |
| Storage temperature | $^{\circ}$ C | -40 to +85 |
| Dimensions (H x W x D) | mm | 43.6 x 183 x 118.5 |

ORDERING INFORMATION

| Product number | Description |
|------------------|--|
| F-O4MUX-8-LU | Fiberworks 8 ch. O-band DWDM Mux+Demux O-band 228.6-231.4 THz, 400GHz, LC/UPC |
| F-CHASSIS-1U2-19 | Fiberworks 19" 1U chassis for two modules, with one blanking plate |