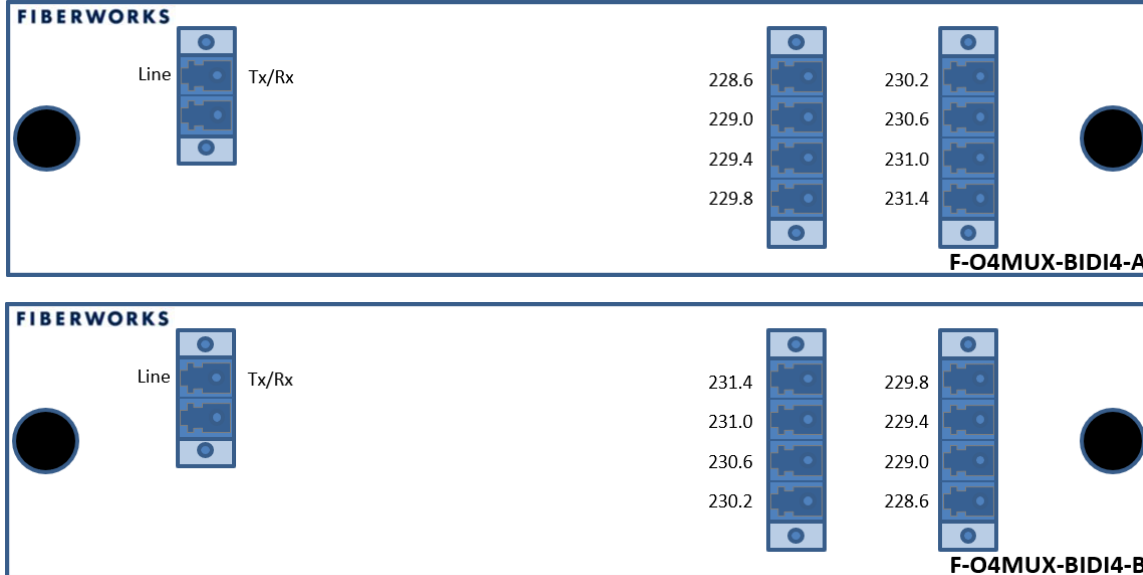


# F-O4MUX-BIDI4-A/B

## 4 channel O-band DWDM single fiber mux/demux



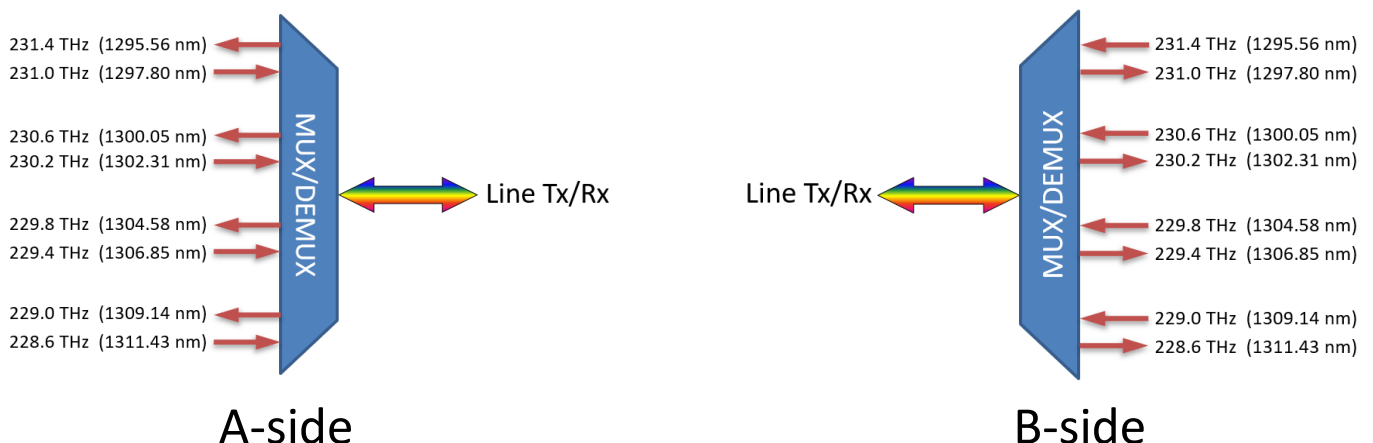
### DESCRIPTION

These compact DWDM multiplexers/demultiplexers work in a pair to provide 4 bidirectional channels over a single strand of fiber. They use 8 DWDM wavelengths in the O-band, i.e. around 1310 nm. They are 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-wavelength 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 (≈ 2.2 nm)
Center Wavelength Accuracy	nm	± 0.1
Channel Flatness	dB	< 0.4
Channel Passband (@ - 0.5 dB bandwidth) Min.	nm	0.22
Channel Ripple	dB	≤ 0.50
Adjacent channel isolation	dB	≥ 25
Non-adjacent channel isolation	dB	≥ 40
Polarization dependent loss	nm	≤ 0.20
PMD	ps	≤ 0.10
Directivity	dB	≥ 50
Return Loss	dB	≥ 45
Power Handling	mW	< 300
Operating temperature	°C	-40 to +85
Storage temperature	°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-BIDI4-A	Fiberworks 4 ch. BiDi DWDM mux/demux O-band 400GHz, Single Fiber, LC/UPC, "A"
F-O4MUX-BIDI4-B	Fiberworks 4 ch. BiDi DWDM mux/demux O-band 400GHz, Single Fiber, LC/UPC, "B"
F-CHASSIS-1U2-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate