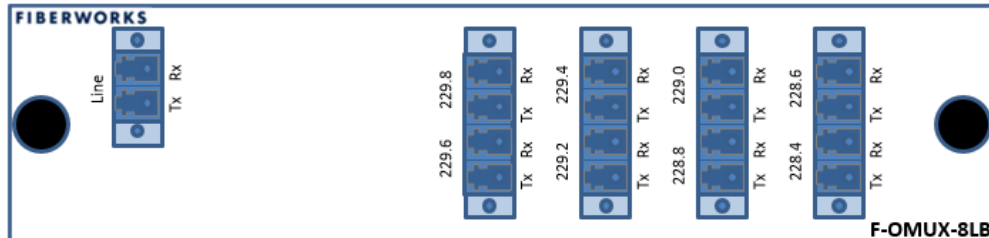


# F-OMUX-8LB-LU

## 8 channel O-band DWDM mux+demux



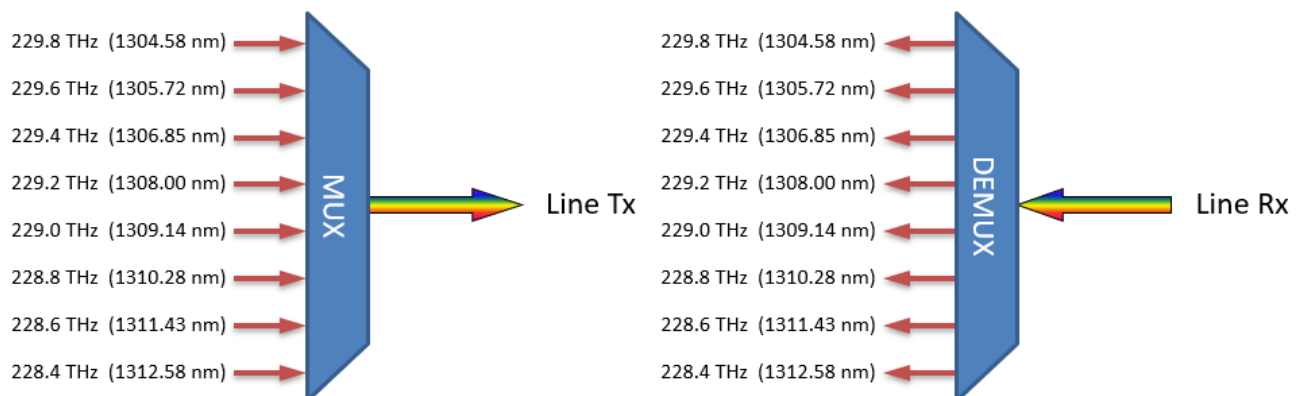
### DESCRIPTION

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, 200 GHz spacing
- All channels fit within any standard 1311 nm CWDM channel or a 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	200 ( $\approx$ 1.1 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-OMUX-8LB-LU	Fiberworks 8 ch. O-band DWDM Mux+Demux O-band 228.4-229.8 THz, 200GHz, LC/UPC
F-CHASSIS-1U2-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate