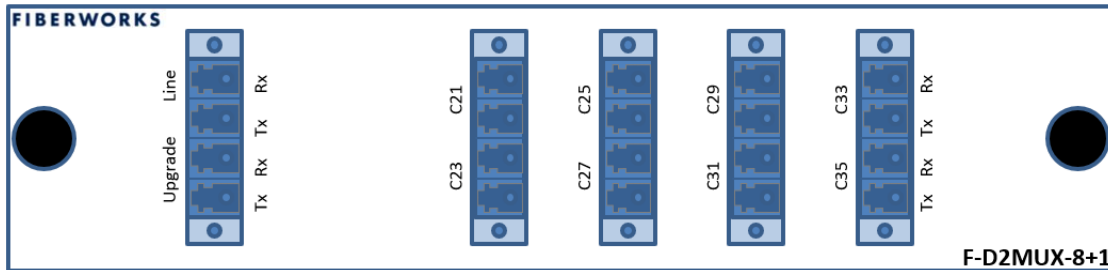


F-DMUX-8+1-2135

8 channel 800G-optimized DWDM mux+demux with combined 1310 wideband / upgrade port



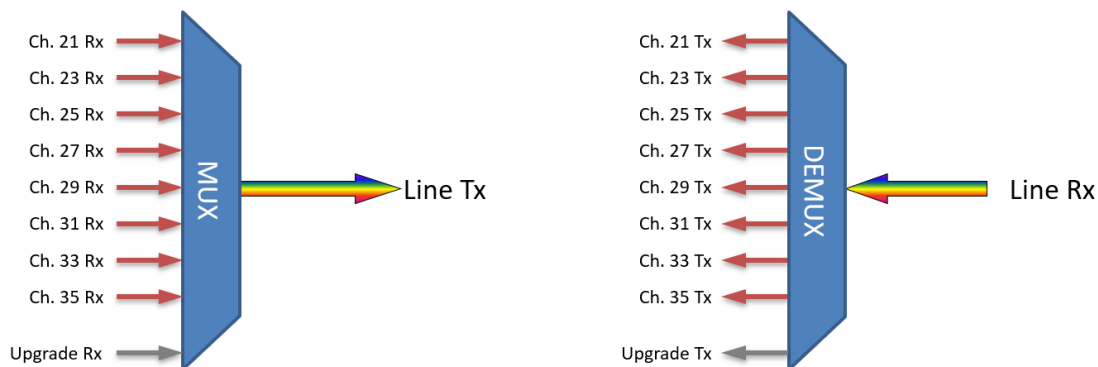
DESCRIPTION

This DWDM multiplexer/demultiplexer covers 8 DWDM channels in the C-band. The channels have a super-wide passband in order to enable 800Gb/s signals with 16QAM encoding, but can also be used for lower bitrates. The upgrade port enables the module to be used together with e.g. F-DMUX-16-4560 to create a 24-channel DWDM system. Since the port's passband covers the 1310 band it can also be used for legacy 1310 nm systems, 40/100GBASE-ER4/ZR4 interfaces, a low-band CWDM multiplexer or an O-band DWDM multiplexer.

FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 8-channel DWDM mux/demux, 200 GHz spacing
- Super-wide passband enables 800G 16QAM signals
- 1310 wideband / upgrade port for 16 additional DWDM channels, 40/100GBASE-ER4, low band CWDM or 1310 nm legacy systems
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- Two modules fit in a 1U chassis for 19" racks
- LC/UPC connectors

FUNCTIONAL DESCRIPTION



Ch. 21 = 192.1 THz = 1560.61 nm
 Ch. 23 = 192.3 THz = 1558.98 nm
 ⋮
 Ch. 35 = 193.5 THz = 1549.32 nm

TECHNICAL DATA

Parameter	Unit	Value
Max insertion loss (module / link)	dB	< 2.8 / < 4.0
Max insertion loss 1310 nm wideband port (module/link)	dB	< 1.5 / < 1.8
Typical insertion loss (module / link)	dB	< 2.3 / < 3.6
Insertion loss 1310 nm wideband port (typical/maximum)	dB	< 0.5 / < 1.5
Channel spacing	GHz	200 (\approx 1.6 nm)
Channel Passband (@ - 0.5 dB bandwidth)	nm	> 0.5
Channel Passband (@ - 3.0 dB bandwidth)	nm	> 1.3
Adjacent channel isolation	dB	> 30
Non-adjacent channel isolation	dB	> 40
Polarization dependent loss	dB	< 0.2
Polarization mode dispersion	ps	< 0.1
Directivity	dB	> 45
Return Loss	dB	> 45
1310 wideband port passband	nm	1260 - 1550
Wavelength thermal stability	nm/°C	< 0.001
Insertion Loss thermal stability	dB/°C	< 0.005
Power Handling	mW	< 300
Dimensions (H x W x D)	mm	43.6 x 183 x 118.5
Operating temperature	°C	0 to +70
Storage temperature	°C	-40 to +85

ORDERING INFORMATION

Product number	Description
F-D2MUX-8+1-2135-MLU	Fiberworks 8+1 ch. 800G DWDM Mux+Demux ITU ch. 21-35, 200 GHz, Upgrade/1310 wideband
F-CHASSIS-1U2-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate