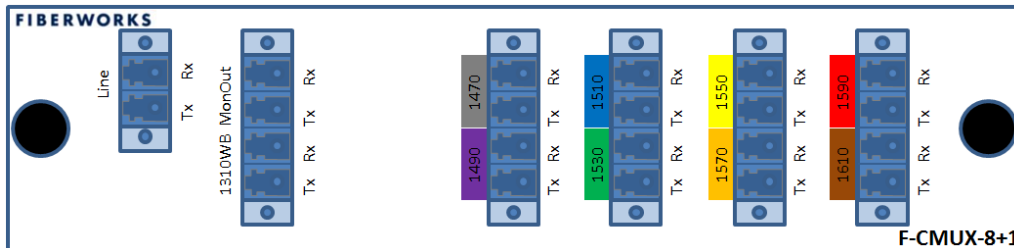


F-CMUX-8+1

8 + 1 channel CWDM mux/demux with monitor ports



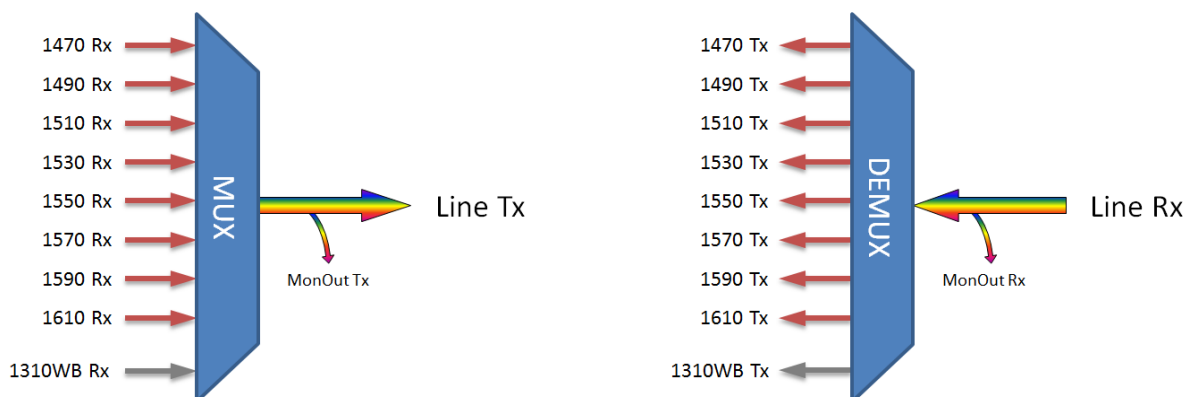
DESCRIPTION

This compact CWDM multiplexer/demultiplexer covers the 8 most common CWDM channels. Its 1310 nm wideband port can be used for legacy 1310 nm equipment or 8 more CWDM channels in the lower band. Monitor ports ensures easy troubleshooting without downtime and the color coding helps in the installation process reducing the chance of errors.

FEATURES

- Coarse WDM in compliance with ITU-T G.694.2
- Standard 8-channel CWDM band 1470 – 1610 nm, 20 nm spacing
- Upgrade port for 1310 nm or lower band CWDM
- Monitoring ports for Tx and Rx
- 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 or LC/APC connectors

FUNCTIONAL DESCRIPTION



TECHNICAL DATA

Parameter	Unit	Value
Center Wavelength	nm	1471, 1491, 1511, ... , 1611
Insertion loss (module / link)	dB	< 3.3 / < 4.0 (see note below)
Insertion Loss – 1310 wide band port (module / link)	dB	< 1.3 / 2.0 (see note below)
Wide Band port pass band	nm	1260 - 1440
Monitoring ports power level	dBm	$P_{\text{Line port}} - 20 \text{ dB}$
Channel Spacing	nm	20
Channel Flatness	dB	< 0.4
Channel Bandwidth	nm	+/- 6.5
Channel Uniformity	dB	< 1.0
Adjacent channel isolation	dB	> 30
Non-adjacent channel isolation	dB	> 40
Directivity	dB	> 55
Return Loss	dB	> 50
PDL	dB	< 0.15
PMD	ps	< 0.1
Wavelength thermal stability	nm/°C	< 0.003
Insertion Loss thermal stability	dB/°C	< 0.005
Power Handling	mW	> 500
Dimensions (H x W x D)	mm	43.6 x 183 x 118.5
Operating temperature	°C	-30 to +70
Storage temperature	°C	-40 to +85

Note: Insertion loss values are valid for 0 – 70 °C. For temperatures from 0 to -30 °C add 0.5 dB for module and 1.0 dB for link.

ORDERING INFORMATION (FIBERWORKS FORM FACTOR)

Product number	Description
F-CMUX-8+1-4761-MLU	Fiberworks 8+1 ch. CWDM Mux/Demux C47-C61 + 1310nm/CWDM upgrade, Mon.ports
F-CMUX-8+1-4761-MLA	Fiberworks 8+1 CATV CWDM Mux/Demux, APC C47-C61 + 1310nm/CWDM upgrade, Mon.ports
F-CHASSIS-1U2-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate