

F-CMUX-4+1

4 + 1 channel CWDM mux/demux with monitor ports



DESCRIPTION

This compact CWDM multiplexer/demultiplexer covers the 4 CWDM channels around 1550 nm. Its 1310 nm wideband port can be used for legacy 1310 nm equipment or up to 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 4-channel CWDM band 1510 – 1570 nm, 20 nm spacing
- Upgrade port for 1310 nm or lower band CWDM
- 2% 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 1U in 19" rack
- LC/UPC or LC/APC connectors

FUNCTIONAL DESCRIPTION



TECHNICAL DATA

Parameter	Unit	Value
Center Wavelength	nm	1511, 1531, 1551, 1571
Insertion loss (module / link)	dB	< 2.2 / < 3.0
Insertion Loss – 1310 wide band port (module / link)	dB	< 1.3 / 2.0
Wide Band port pass band	nm	1260 - 1437
Monitoring ports power level	dB	$P_{\text{Line port}} - 19 \text{ dB}$
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
Operating temperature	°C	0 to +70
Storage temperature	°C	-40 to +85
Dimensions (H x W x D)	mm	43.6 x 183 x 118.5

ORDERING INFORMATION

Product number	Name	Description
F-CMUX-4+1-5157-MLU	F-CMUX-4+1	Fiberworks 4+1 ch. CWDM Mux/Demux C51-C57 + 1310nm/CWDM upgrade, Mon.ports
F-CMUX-4+1-5157-MLA	F-CMUX-4+1	Fiberworks 4+1 CATV CWDM Mux/Demux C51-C57 + 1310nm/CWDM upgrade, Mon.ports
F-CHASSIS-1U2-19	F-CHASSIS-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate