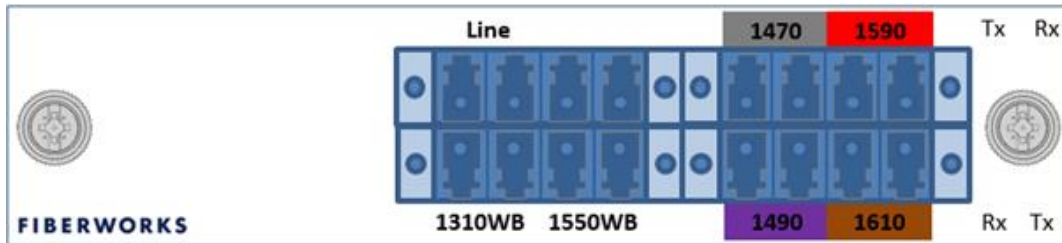# F-CMUX-4+2

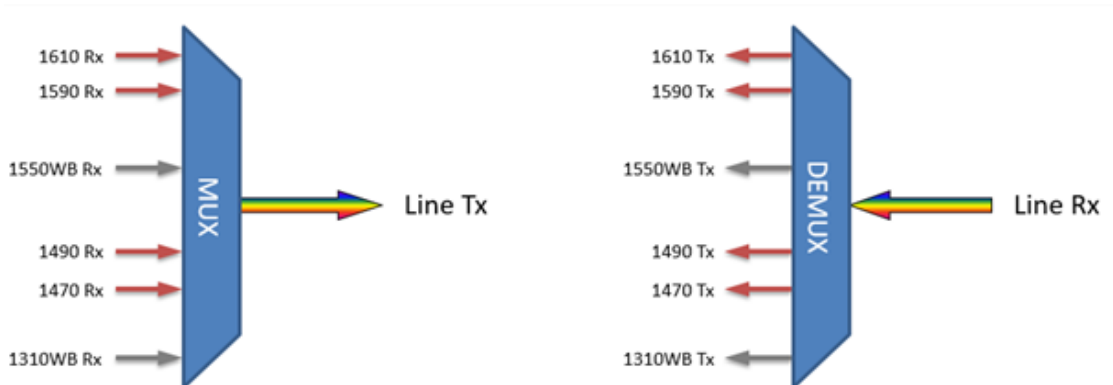## 4+ 2 channel CWDM mux/demux with monitor ports

DESCRIPTION

This compact CWDM multiplexer/demultiplexer covers 4 standard bandwidth CWDM channels. Its 1310 nm wideband port can be used for legacy 1310 nm equipment or 8 more CWDM channels in the lower band. It can also be used for a 40G or 100G interface (LR4/ER4/ZR4). The 1550 nm wideband port can fit legacy ("gray") 1550 nm equipment or a complete C-band DWDM system including OSC. The color coding helps in the installation process reducing the chance of errors.

FEATURES

- Coarse WDM in compliance with ITU-T G.694.2
- 4 standard CWDM channels
- Upgrade port for legacy 1310 nm, lower band CWDM or 40/100G interface
- 1550 nm wideband port for legacy or DWDM equipment
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- LGX3 form factor - Three modules fit in 1U in 19" chassis or 14 modules in a 3U chassis.
- LC/UPC connectors

FUNCTIONAL DESCRIPTION

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R1.0
30.08.2022

TECHNICAL DATA

Parameter	Unit	Value
Center Wavelength CWDM Channels	nm	1471, 1491, 1591, 1611
Insertion loss (module / link)	dB	< 2.2 / < 3.0
Insertion Loss – 1310 wide band port	dB	< 1.0
Insertion Loss – 1550 wide band port	dB	< 2.2
1310 Wide Band port pass band	nm	1260 - 1460
1550 Wide Band port pass band	nm	~ 1500 - 1580
Channel Spacing	nm	20
Channel Flatness	dB	< 0.4
Channel Bandwidth CWDM channels	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	29 x 130 x 160

ORDERING INFORMATION

Product number	Description
F-CMUX-4+2-4761-LGX3	Fiberworks 4+2 ch. CWDM Mux/Demux, LGX3 4 CWDM ch + 1310 & 1550 nm WB, Mon.ports
F-CHASSIS-19-LGX3+14	Fiberworks 19" 3U LGX3 / TG-chassis for 14 moduler, åpen ramme

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