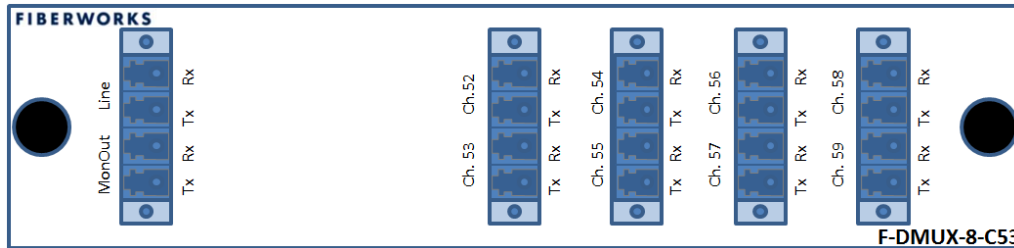# F-DMUX-8-C53

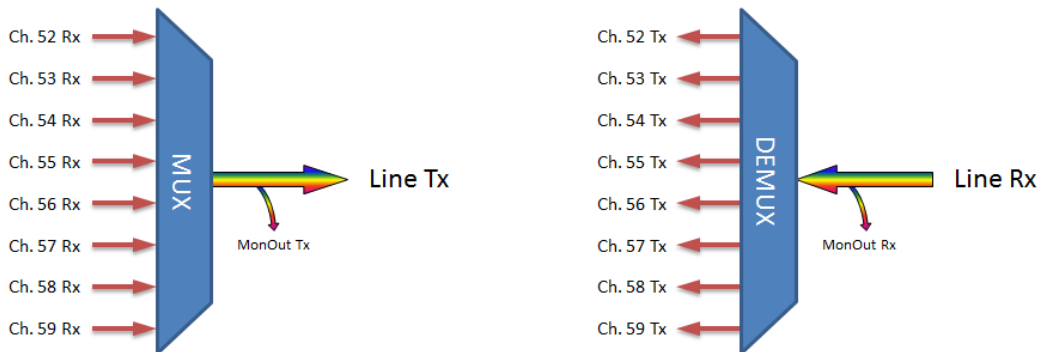**8 channel DWDM mux/demux and CWDM expander with monitor ports**

DESCRIPTION

This compact DWDM multiplexer/demultiplexer covers 8 DWDM channels which fits within any standard CWDM 1531 nm channel. Monitor ports ensures easy troubleshooting without downtime.

FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 8-channel DWDM mux/demux, 100 GHz spacing
- All channels fit within any standard 1531 nm CWDM channel
- Can also be used as standalone DWDM mux/demux
- 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 connectors

FUNCTIONAL DESCRIPTION

Ch. 52 = 195.2 THz = 1557.36 nm
Ch. 53 = 195.3 THz = 1556.55 nm
⋮
Ch. 59 = 195.9 THz = 1551.72 nm

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TECHNICAL DATA

Parameter	Unit	Value
Max insertion loss (module / link)	dB	< 2.7 / < 3.5
Typical insertion loss (module / link)	dB	2.5 / 3.3
Channel spacing	GHz	100 (≈ 0.8 nm)
Center Wavelength Accuracy	nm	± 0.1
Channel Flatness	dB	< 0.4
Channel Passband (@ - 0.5 dB bandwidth) Min.	nm	0.22
Channel Uniformity	dB	< 1.5
Channel Ripple	dB	< 0.3
Adjacent channel isolation	dB	> 25
Non-adjacent channel isolation	dB	> 35
Directivity	dB	> 50
Return Loss	dB	> 45
Monitoring ports power level	dB	$P_{Line\ port}$ - 17
Wavelength thermal stability	nm/°C	< 0.002
Insertion Loss thermal stability	dB/°C	< 0.005
Power Handling	mW	< 300
Operating temperature	°C	0 to +65
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-DMUX-8-C53-MLU	F-DMUX-8-C53	Fiberworks 8 ch. DWDM Mux/Demux for C53 ITU ch. 52-59, 100GHz, Monitor ports, LC
F-CHASSIS-1U2-19	F-CHASSIS-19	Fiberworks 19" 1U chassis for two modules, with one blanking plate

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