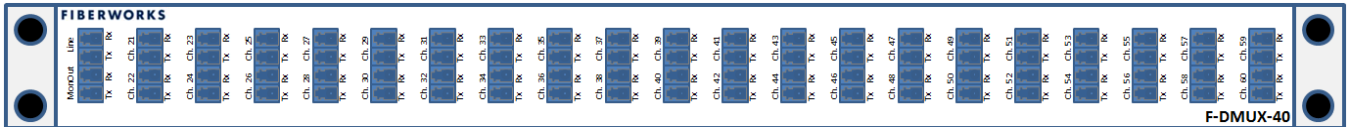


# F-DMUX-40

40 channel DWDM mux/demux with monitor ports



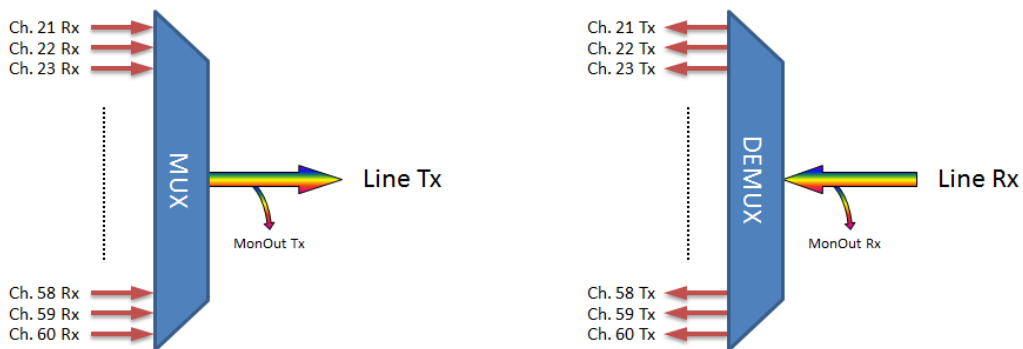
## DESCRIPTION

This compact DWDM multiplexer/demultiplexer covers 40 DWDM channels from 1529.55 nm to 1560.61 nm. Multiplexers based on AWG (arrayed wave guide) give uniform insertion loss across all channels. Monitor ports ensures easy troubleshooting without downtime. The filter is mounted in a 1U 19" rack module with can be retracted for enhanced protection of fiber connections.

## FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 40-channel DWDM mux/demux, 100 GHz spacing
- 2% monitoring ports for Tx and Rx
- Based on arrayed wave guide (AWG) for uniform insertion loss across all channels
- Protocol transparent (support 1G, 10G etc.)
- 1U 19" rack module
- LC connectors

## FUNCTIONAL DESCRIPTION



Ch. 21 = 192.1 THz = 1560.61 nm  
 Ch. 22 = 192.2 THz = 1559.79 nm  
 ...  
 Ch. 60 = 194.0 THz = 1529.55 nm

**TECHNICAL DATA**

Parameters	Units	Specification Values		
		Min	Typ	Max
Number of Channels			40	
Channel Spacing	GHz		100	
ITU Channels		21		60
Channel Center Wavelength	nm	1529.55		1560.61
Channel Center Frequency	THz	192.1		196.0
Clear Channel Passband	nm		±0.1	
Wavelength Stability	nm		±0.05	
-1 dB /-1 dB Channel Bandwidth	nm	0,24		
-3 dB /-3 dB Channel Bandwidth	nm	0,43		
Channel Optical Insertion Loss at ITU grid	dB		3.5	4.0
Monitoring Ports Insertion Loss	dB		20	
Adjacent Channel Isolation	dB	25		
Non-Adjacent, Channel Isolation	dB	29		
Total Channel Isolation	dB	22		
Insertion Loss Uniformity	dB		0,8	1,5
Insertion Loss Ripple	dB			1,5
Optical Return loss	dB	40		
PDL in Clear Channel Band	dB		0,3	0,5
Polarization Mode Dispersion	ps			0,5
Maximum Optical Power	dBm			23
Operating temperature	°C	-5		65
Storage temperature	°C	-40		85

**ORDERING INFORMATION**

Product number	Name	Description
F-DMUX-40-2160-MLU	F-DMUX-40	Fiberworks 40 ch. DWDM Mux/Demux ITU ch. 21-60, 100GHz, Monitor ports, LC