

# F-DMUX-16-4560

16 channel DWDM mux+demux



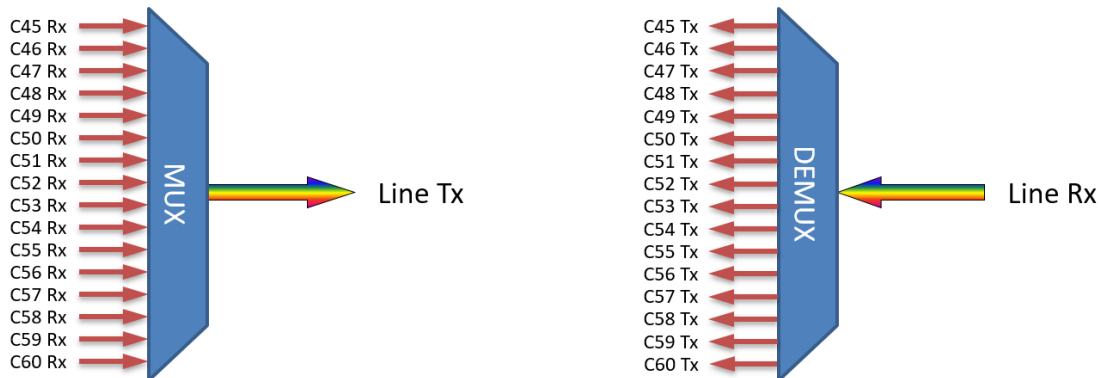
## DESCRIPTION

This DWDM multiplexer/demultiplexer covers 16 DWDM channels in the high-frequency part of the C-band. It can be used on its own or together with the F-DMUX-16+1-2136 to create a 32-channel DWDM system. The filter is mounted in a 19" rack module which can be retracted for enhanced protection of fiber connections and with a fiber organizer shelf.

## FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 16-channel DWDM mux/demux, 100 GHz spacing
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- 19" rack module with adjustable brackets and removable fiber organizing shelf
- LC connectors

## FUNCTIONAL DESCRIPTION



Ch. 45 = 194.5 THz = 1541.35 nm  
 Ch. 46 = 192.2 THz = 1540.56 nm  
 ⋮  
 Ch. 60 = 196.0 THz = 1529.55 nm

**TECHNICAL DATA**

Parameter	Unit	Value
Max insertion loss (module / link)	dB	< 3.8 / < 5.0
Channel spacing	GHz	100 ( $\approx$ 0.8 nm)
Center Wavelength Accuracy	nm	$\pm$ 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
Wavelength thermal stability	nm/ $^{\circ}$ C	< 0.002
Insertion Loss thermal stability	dB/ $^{\circ}$ C	< 0.005
Power Handling	mW	< 300
Operating temperature	$^{\circ}$ C	0 to +70
Storage temperature	$^{\circ}$ C	-40 to +85

**ORDERING INFORMATION**

Product number	Description
F-DMUX-16-4560-MLU	Fiberworks 16 ch DWDM Mux+Demux, Highband ITU ch. 45-60, 100 GHz