



DWDM MUX / DEMUX Module Card

Part Number: F520-DW-xxx



Overview

The DW-xxx card is made with DWDM TFF components to realize the function of DWDM wavelength Multiplexing or Demultiplexing of 2~16 channels. It can multiplex different DWDM wavelengths into one single fiber or demultiplex the DWDM signal from one single fiber to different wavelengths. It is a flexible and low-cost solution which enables the expansion of existing capacity for service providers without investing on fiber lines.

Applications

- Long-Haul / Metro DWDM system
- DWDM networks

Features

- 100GHz Channel Spacing
- Support up to 16 channels
- Plug and play, no configuration required
- Passive products without power and cooling needs
- High Isolation and Low Insertion Loss
- Stable and Reliable performance
- High integration card package
- Support Monitoring and Express channel



Specification

Parameters	Specification Values			Unit
Fiber Type	SMF-28e or equivalent Single Mode Fiber			
Center Wavelength	ITU-Grid			nm
Channel Spacing	100			GHz
Center Wavelength Accuracy	±0.05			nm
Channel Passband (@-0.5dB) (nm)	0.22			nm
Passband Ripple (dB)	≤ 0.5			dB
Optical Insertion Loss at ITU grid*1	4CH	8CH	16CH	
	<1.8	<3.0	<4.5	dB
Adjacent Channel Isolation	≥ 25			dB
Non-Adjacent Channel Isolation	≥ 40			dB
PDL / Polarization Dependent Loss*2	≤ 0.2			dB
PMD / Polarization Mode Dispersion	≤ 0.1			ps
Directivity	≥ 50			dB
Optical Return Loss	≥ 45			dB
Maximum Handling Power	300			mW
Size	191(W) x 253(D) x 20(H)			mm
Operating Temperature	-10 ~ +60			°C
Storage Temperature	-40 ~ +85			°C
Relative Humidity (no condensation)	5 ~ 95			%

Note1: The Insertion Loss values not including Connector Loss.

Note2: PDL was measured on average polarization over a ±0.08nm window around the ITU wavelength.



Ordering Information

F520-DW-

Configuration

M: Mux P: Mux*2
D: Demux Q: Demux*2
U: Mux+Demux

Channel Counts

02- 2 Channels
04- 4 Channels
08- 8 Channels
16- 16 Channels
XX- XX Channels