



CWDM MUX / DEMUX Module Card

Part Number: F520-CW-xxx



Overview

The CW-xxx card is made with CWDM TFF components to realize the function of CWDM wavelength Multiplexing and Demultiplexing of 2~16 channels. It can multiplex different CWDM wavelengths into one single fiber or demultiplex the CWDM 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

- Metro / Access CWDM system
- CWDM networks

Features

- 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
Operating Wavelength Range		1260 to 1620				nm
Center Wavelength List		1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610				nm
Center Wavelength Accuracy		±0.5				nm
Channel Spacing		20				nm
Channel Passband (@-0.5dB)		±7.5				nm
		2CH	4CH	8CH	16CH	
MAX Insertion Loss *1,2		1.2	1.6	2.8	3.5	dB
MAX Average Pair Loss *1,2		1.8	2.6	4.0	5.0	dB
Polarization Dependent Loss		≤ 0.10	≤ 0.15	≤ 0.20	≤ 0.25	dB
Polarization Mode Dispersion		≤ 0.10				ps
Isolation	Adjacent	≥ 25				dB
	Non-adjacent	≥ 40				
Channel Uniformity		≤ 0.8				dB
Channel Ripple		≤ 0.3				dB
Insertion Loss Temperature Sensitivity		≤ 0.005				dB/°C
Wavelength Temperature Shifting		≤ 0.002				nm/°C
Directivity		≥ 50				dB
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 Temperatur		-40 ~ +85				°C
Relative Humidity (no condensation)		5 ~ 95				%

Note1: The Insertion Loss values not including Connector Loss.

Note2: 16CH & 18CH are with Band Splitter.



Ordering Information

F520-CW-

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