

About 4,8,16ch-cwdm-mux-demux-cwdm-module

Vchung offers a full range of CWDM Mux-Demux and Optical Add Drop Multiplexer (OADM) units to suit all kinds applications and network solutions. Some most common ones are: Gigabit & 10G Ethernet, SDH/SONET, ATM, ESCON, Fibre Channel, FTTx and CATV.

Vchungs' Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

Our CWDM Mux Demux products provide up to 16-channel or even 18-channel Multiplexing on a single fiber. Due the the low insertion loss is needed in WDM networks, we can also add "Skip Component" in a CWDM Mux/Demux module to reduce the IL as an option. Standard CWDM Mux/Demux package type include: ABS box package, LGX package and 19" 1U rackmount.

Features

Low Insertion Loss
Wide pass band
High Channel Isolation
High Stability and reliability
Epoxy-free on Optical Path
Access Network

Applications

Line Monitoring
WDM Network
Telecommunication
Cellular Application
Fiber Optical amplifier
Access Network

Performance Specifications

Parameter	4 Channel		8 Channel		16 Channel		
	Mux	Demux	Mux	Demux	Mux	Demux	
Channel Wavelength (nm)	1270~1610						
Center wavelength Accuracy (nm)	±0.5						
Channel Spacing (nm)	20						
Channel Passband (@-0.5dB bandwidth (nm)	>13						
Insertion Loss (dB)	≤1.6		≤2.5		≤4.5		
Channel Uniformity (dB)	≤0.6		≤1.0		≤1.5		
Channel Ripple (dB)	0.3						
Isolation (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Inertion Loss Temperature Sensitivity (dB/°C)	<0.005						
Wavelength Temperature Shifting (nm/°C)	<0.002						
Polarization Dependent Loss (dB)	<0.1						
Polarization Mode Dispersion	<0.1						
Directivity (dB)	>50						
Return Loss (dB)	>45						
Maximum Power Handling (mW)	300						
Operating Temperature (°C)	-5~+75						

Storage Temperature (°C)	-40~85	
Package dimension (mm)	L100 x W80 x H10	L142 x W102 x H14.5

Specification may change without notice.

Above specification are for device without connector.

Ordering Information

CWDM	X	XX	X	XX	X	X	XX
	Channel Spacing	Number of Channels	Configuration	1st Channel	Fiber Type	Fiber Length	In/Out Connector
	C=CWDM Grid	04=4 Channel 08=8 Channel 16=16 Channel 18=18 Channel N=N Channel	M=Mux D=Demux O=OADM	27=1270nm 47=1470nm 49=1490nm 61=1610nm SS=special	1=Bare fiber 2=900um loose tube 3=2mmCable 4=3mmCable	1=1m 2=2m S=Specify	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC S=Specify

Package Type



Figure1 ABS box package



Figure2 LGX package



Figure3 1U Rack package