

4CH 8Channel 16Channels CWDM

Quick Details:

Place of Origin: Shenzhen,China

Brand Name: Optico, or OEM

Model Number: WDM-19

Item: 4CH, or 8 channel CWDM units

Wavelength: 1270-1610nm/1271-1611nm

Application: CWDM Network Add/Drop System CATV Fiberoptic System

Fiber Type: 1*4/1*8/1*16

Connectors: SC LC FC / UPC/APC CONNECTORS

Material: PVC; ABS

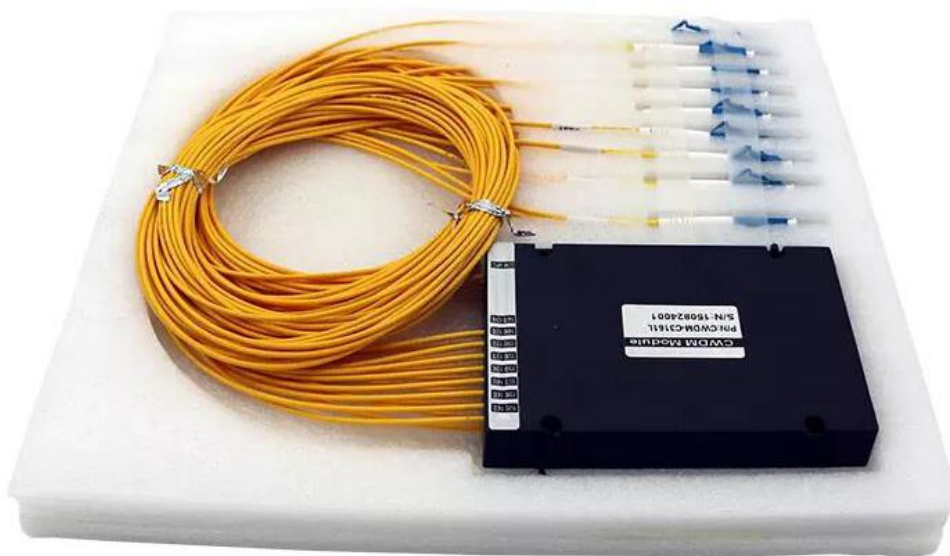
Operating temperature: -20~+75°C

Option channel: 4, 8 , 16, 18 channels

Warranty: 1~3 Years

Package type: Mini package, Module package, Frame package

Supply Ability:10000 Piece/Pieces per Month





Product Introduction

CWDM: Coarse Wavelength Division Multiplexer.

CWDM is a low-cost WDM transmission technology for the metropolitan area network access layer. In principle, CWDM uses optical multiplexers to multiplex optical signals of different wavelengths onto a single fiber for transmission. At the receiving end of the link, the mixed signal in the fiber is decomposed into different wavelengths with the aid of an optical demultiplexer Signal to the appropriate receiving device.

Features

- Low Insertion Loss
- High Channel Isolation
- Optical path epoxy free
- Excellent thermal stability and reliability
- Telcordia GR-1221 Compliance and RoHS Environmental Protection Standard

Application

- DWDM Network
- Add/Drop System
- CATV Fiberoptic System

Technical 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 Pass band(@-0.5dB bandwidth (nm))		>14					
Insertion Loss(dB)		≤1.4		≤2.6		≤5.0	
Channel Uniformity (dB)		≤0.5		≤0.5		≤0.5	
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
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005					
Wavelength Temperature Shifting (nm/°C)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion (PS)		<0.1					
Directivity (dB)		>50					
Return Loss(dB)		>45					
Maximum Power Handling(mW)		500					
Operating Temperature(°C)		-5~+75					
Storage Temperature (°C)		-40~85					
Package dimension(mm)		1. L100 x W80 x H10 (2 CH~8CH Module)					
		2. L120xW800xH18 (9 CH~18CH Module)					

Remark: Above is without connectors,if with connectors,add more 0.2dB.

Order Information

Configuration	Channel No.	Channel	Pigtail Type	Fiber length	Dimensio(mm)	Connector
M=Mux D=Demux	04=4 Channel	27=1270nm	0=250um 1=900um 2=2.0mm 3=3.0mm	1=1m 2=1.5m 3=others	1=L100 x W80 xH10 2=L120xW80xH18 3=19 1U Rack	0=None
	08=8 Channel	47=1470nm				1=FC/APC
	16=16 Channel	49=1490nm				2=FC/PC
				3=SC/APC
	N=N Channel	61=1610nm				4=SC/PC
.....	SS=special...	5=other				

The difference between CWDM and DWDM:

- 1, CWDM has 18 bands, from 1270nm to 1610nm, and the interval between each band is 20nm. There are three types of channel spacing for DWDM as needed: 0.4nm (50Ghz), 0.8nm (100Ghz) and 1.6nm (200Ghz), 100GHz (from C17 to C61, which is the most commonly used, suitable for conventional equipment); C17 to H61, suitable for high-channel equipment).
- 2, CWDM wavelength 1470nm ~ 1610nm generally use DFB lasers, because the channel spacing is large, so CWDM devices and lasers are cheaper than DWDM devices.
- 3, CWDM optical wave channel spacing is wide, the number of multiplexed optical wavelengths on the same fiber is less than DWDM, the reason for the "coarse" and "dense" titles;
4. CWDM optical modulation uses uncooled laser, which is tuned electronically; DWDM uses cooled laser, which is tuned with temperature.
5. Due to the uneven temperature distribution in a wide range of light wavelengths, temperature tuning is difficult and costly. CWDM avoids this difficulty, thus greatly reducing costs. At present, the cost of a CWDM system is generally only 30% of DWDM;
- 6, CWDM system power consumption and physical size are much smaller than DWDM system.

Certificates: ISO, CE, ROHS, CPR



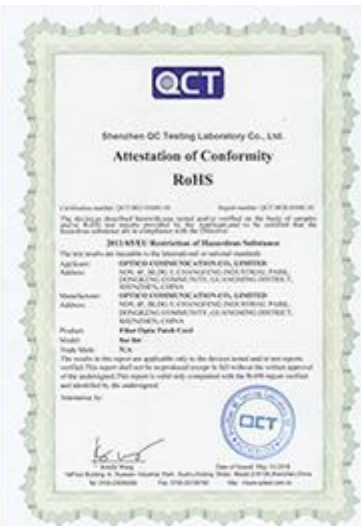
CE



CPR



ISO



RoHS

Factory Workshop Pictures:

Shenzhen Optico Communication Co.,Ltd



