

16CH CWDM Mux Demux

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



ABS box package, size:100*80*10mm



Place of Origin: Shenzhen, China

Brand Name: OPTICO / OEM

Model Number: OP-CWDM-16CH

Product name: CWDM OADM

Channel Number: 16CH

Structure: Mux/Demux

Channel Spacing: 20nm

Central Wavelength: 1271~1611nm

Operating wavelength: 1260~1620nm

Input/Output connector: LC connector

Input/Output length: 1m or customized

Pigtail Diameter: 0.9mm

Package dimension: ABS box(100mmX80mmX10mm)

Supply Ability: 20000pcs/month

Packaging: Individual box or according to customer's request

Port: Shenzhen

CWDM Mux / Demux Module are based on thin film filter technology. CWDM technology provides the flexibility to increase capacity of existing fiber infrastructure by enabling multiple channels (wavelengths) over the same fiber cabling. Each channel carries data independently from each other, allowing network designers to transport different data rates and protocols for different customers or applications.

CWDM can solve the shortage of fiber and transparent transmission of business, and reduce the cost of network building. With low-cost low power consumption and small compact, it is widely used in metro aggregation and access layer to do transmission on a short time.

Features:

1. The transmission capacity is increased several times to dozens of times compared with single wavelength transmission, which saves costs.
2. The rate and format of the signal transmitted by each channel are transparent, which is conducive to the compatibility of digital and analog signals.
3. It saves optical fiber and optical repeater to facilitate the expansion of the built system.
4. It can provide wavelength selection, making it possible to establish a transparent and highly survivable WDM all-optical communication network.

Application:

- 1, CWDM Network
- 2, Add / Drop System
- 3, CATV Fiberoptic System
- 4, Metro/Access Network
- 5, Fiber Optical Amplifier
- 6, Local area network
- 7, Data center
- 8, 5G network

Parameters:

Parameter	Unit	Value
Channels Number	-	2 4 8 16
Channel Space	nm	20
Central Wavelength	nm	1271~1611

Operating wavelength	nm	1260-1460 or 1460-1620 or 1260-1620			
Passband	nm	λ ITU \pm 6.5			
Pass band Flatness	dB	\leq 0.5			
Insertion Loss (Typ.)	dB	0.8	1.3	2.4	4.6
Insertion Loss (Max.)	dB	0.9	1.5	2.8	5.0
Adjacent Channel Isolation	dB	\geq 30			
Non-adjacent Channel Isolation	dB	\geq 40			
Polarization Mode Dispersion	ps	\leq 0.1	\leq 0.1	\leq 0.15	\leq 0.15
Polarization Dependent Loss	dB	\leq 0.1	\leq 0.15	\leq 0.2	\leq 0.25
Return Loss	dB	\geq 50			
Directivity	dB	\geq 50			
Insertion Loss Temperature Sensitivity	dB/°C	0.005	0.005	0.007	0.007
Wavelength Temperature Shifting	nm/°C	0.002			
Operation Temperature	°C	-10~+70			
Storage Temperature	°C	-40~+85			
Package Dimension	mm	ABS box: 100X80X10mm or customized			

Certificates:



CE



CPR



ISO



RoHS

Factory:

Shenzhen Optico Communication Co.,Ltd





Keywords:

CWDM, mux demux, data center cabling;