4 Channel DWDM Fiber Mux Demux in Cassete Type

Variants

RX: C25-C28/ TX:C53-C56, LC/UPC RX: C53-C56/ TX:C25-C28, LC/UPC

Details

PASSIVE DWDM SOLUTION

Reverse Channel Mapping • 100GHz ITU-T Grid • LC/UPC • Single Mode

Product Overview

The **4 Channel DWDM MUX / DEMUX** is a passive optical device designed to combine multiple DWDM wavelengths onto a single optical fiber and separate them again at the receiving end.

This version uses **Reverse Channel Mapping**, making it suitable for bidirectional optical transmission in **ISP networks, metro networks, data centers and fiber backbone infrastructure**.

CHANNELS

4 Channel

CHANNEL SPACING

100 GHz

CONNECTOR

LC / UPC

FIBER TYPE

Single Mode

Key Features

? 4-channel passive DWDM MUX / DEMUX

? Reverse channel mapping configuration

? 100GHz ITU-T channel spacing

? LC / UPC optical interface

? Low insertion loss

? No external power required

Technical Specifications

Parameter	Specification
Device Type	Passive DWDM MUX / DEMUX
Channel Count	4 Channel
Channel Configuration	Reverse Channel Mapping

Parameter	Specification
Form Factor	Cassette Type / Rack Mount Compatible
Channel Spacing	100 GHz (ITU-T Grid)
Connector Type	LC / UPC
Fiber Type	Single Mode Fiber (G.652D / OS2)
Insertion Loss	? 2.5 dB (Typical)
Isolation	? 30 dB
Return Loss	? 45 dB
Directivity	? 50 dB
Operating Temperature	-5°C to +70°C
Storage Temperature	-40°C to +85°C
Packaging	ABS Cassette Module

How DWDM MUX / DEMUX Works

MUX ? Single Fiber ? DEMUX

The **MUX** combines four different optical wavelengths onto a common fiber. At the opposite side, the **DEMUX** separates those wavelengths and routes each channel to its corresponding optical interface.

Applications

- ISP Networks
- Metro Networks
- Data Centers
- Fiber Backbone
- Long-Distance Fiber Links
- DWDM Transmission Systems

Important – Reverse Channel Mapping

This model uses **reverse channel mapping**. Confirm the DWDM channel numbers and corresponding wavelengths on both sides of the fiber link before installation.

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