

# DWDM Mux&Demux ABS Module

4ch/8ch/16ch/32ch/40ch



## Features

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

## Applications

- Channel Add/Drop
- DWDM Network
- Fiber Optical Amplifier
- CATV fiberoptic System

## Description

Dense wavelength division multiplexer (DWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging to achieve optical add and drop at the ITU wavelengths. It provides ITU channel center wavelength, low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path .

# Performance Specifications

| Parameter                                    |              | 4 Channel                                                                                                       | 8 Channel | 16 Channel | 32 Channel | 40 Channel |
|----------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|-----------|------------|------------|------------|
| Channel Wavelength(nm)                       |              | ITU-T Grid                                                                                                      |           |            |            |            |
| Channel Spacing (GHz) GHz                    |              | 100G/200G                                                                                                       |           |            |            |            |
| Insertion Loss(dB)                           |              | ≤1.6                                                                                                            | ≤2.6      | ≤3.8       | ≤4.6       | ≤5.0       |
| Channel Ripple(dB)                           |              | 0.3                                                                                                             |           |            |            |            |
| Isolation(dB)                                | Adjacent     | >25                                                                                                             |           |            |            |            |
| Isolation(dB)                                | Non-adjacent | >40                                                                                                             |           |            |            |            |
| Insertion Loss Temperature Sensitivity(dB/℃) |              | ≤0.005                                                                                                          |           |            |            |            |
| Wavelength Temperature Shifting(nm/℃)        |              | <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(℃)                     |              | -10~80                                                                                                          |           |            |            |            |
| Storage Temperature (℃)                      |              | -40~85                                                                                                          |           |            |            |            |
| dimension (mm) (ABS or Aluminium)            |              | 1. L100 x W80 x H10 ( 2 CH~8CH Module)<br>2. L120xW80xH18 (9 CH~16CH Module)<br>3. L140xW115xH18 (>16CH Module) |           |            |            |            |

Above specification are for device without connector

# Order Information

| Channel Spacing | Channel Wavelength | Fiber type | Pigtail Type       | Fiber length | Connector |
|-----------------|--------------------|------------|--------------------|--------------|-----------|
| 50=50G          | O:1260~1360nm      | 1-G652D    | A—Bare fiber       | 00—Other     | 1—FC/UPC  |
| 100=100G        | E+S:1360~1530nm    | 2-G657A    | B—900um loose tube | 05—0.5m      | 2—FC/APC  |
| 200=200G        | C:1530~1565nm      | 3-Other    | C—900um tight tube | 10—1m        | 3—SC/UPC  |
|                 | L:1565~1625        |            | D—2.0mm loose tube | 15—1.5m      | 4—SC/APC  |
|                 | C20= 1561.42 nm    |            | E—3.0mm loose tube | 20—2 m       | 5—LC/UPC  |
|                 | .....              |            |                    |              | 6—LC/APC  |
|                 |                    |            |                    |              | 7—Other   |