

## Features:

- Low optical insertion loss
- Cost-effective CWDM technology
- Mux/Demux four wavelengths
- Monitor port available
- Dual LC connectors for a simple pluggable interface
- Color coded for easy installation
- Reliable passive WDM technology
- Scalable for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliant

# CWDM OADM-4 w/TAP Plug-in Module



OADM-4w/TAP plug-in module is a passive optical add/drop multiplexer designed for metro access applications that represents the state of the art in fiber optics design. The OADM module adds and drops four CWDM wavelength channels from network traffic and passes the other channels. These four-channel OADMs are transparent to the 1310nm wavelength and include a monitor port to provide customers capability to monitor and troubleshoot networks. Finisar's unique CWDM design maps the channels into two-fiber paths, going in opposite directions into a network (east/west).

Added/dropped channels can be connected to any of Finisar's CWDM transceivers on the equipment side. A grid of eight CWDM wavelengths is available from Finisar. The OADM module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis based system allows a network equipment manufacturer to add WDM capability to any existing networks with simple pluggable interface.

The equipment ports of the OADM-4w/TAP plug-in module are color coded to match the wavelength of Finisar's CWDM transceiver to simplify installation and troubleshooting without having to remove the transceivers from the local equipment. This OADM module delivers dramatic cost savings to network equipment manufacturers, enabling them to develop metro access systems that are lower in cost, easier to provision and simpler to operate.

## OADM-4 w/TAP Plug-in Module

### Specifications

#### Mechanical

#### Dimensions:

8.3" x 1.7" x 10.4",  
210mm x 43mm x 264mm,  
plug-in for 1RU rack-mount

#### Connectors:

- Network side: 2 dual LC/PC
- Equipment side: 4 dual LC/PC
- Monitor side: 2 dual LC/PC

#### Optical

#### Center wavelengths: (2 versions):

#### OADM-W/TAP-4B-1 Plug-in

- 1471 nm
- 1491 nm
- 1511 nm
- 1531 nm

#### OADM-W/TAP-4B-2 Plug-in

- 1551 nm
- 1571 nm
- 1591 nm
- 1611 nm

All versions is transparent at 1260-1360 nm

#### Directivity:

≥ 50 dB

#### Return Loss:

≥ 45 dB

#### Passband Ripple:

≤ 0.5dB

#### PDL:

≤ 0.2dB

#### PMD:

≤ 0.2ps

#### Environmental:

- Operating -5 to 70°C
- Relative humidity: 10 to 85% Non-condensing
- Storage - 40 to 85°C

## OADM-4 W/TAP Plug-in Module Parameter Specifications

| Passband                        | Max Insertion Loss (dB) |      |                |                | Min Isolation (dB) |      |      | Max Insertion Loss(dB)<br>(Monitor Port) |
|---------------------------------|-------------------------|------|----------------|----------------|--------------------|------|------|--|
|                                 | Add                     | Drop | Pass<br>(1550) | Pass<br>(1310) | Add                | Drop | Pass | All Ports                                |
| Center wavelength<br>+/- 6.5 nm | 1.8                     | 1.8  | 2.1            | 2.1            | 30                 | 30   | 15   | 23                                       |

**Note:** Connector loss included.

### Front Panel

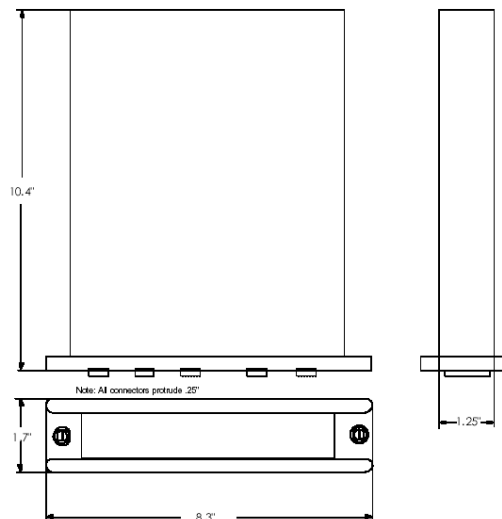
FWSF-OADM-W/TAP-4B-1-LC Front Panel



FWSF-OADM-W/TAP-4B-2-LC Front Panel



### Dimensions (Unit: inch)



### Ordering Information

#### Part Number Description

|                         |   |
|-------------------------|---|
| FWSF-OADM-W/TAP-4B-1-LC | 4 Wavelengths Add/Drop MUX (1471, 1491, 1511, 1531) with TAP port Plug-in Module for FWSF-CHASSIS-2, LC connectors  |
| FWSF-OADM-W/TAP-4B-2-LC | 4 Wavelengths Add/Drop MUX (1551, 1571, 1591, 16131) with TAP port Plug-in Module for FWSF-CHASSIS-2, LC connectors |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Finisar:

[FWSF-OADM-W/TAP-4B-1-LC](#) [FWSF-OADM-W/TAP-4B-2-LC](#)