

**Features:**

- Low optical insertion loss
- Cost-effective WDM technology
- Terminates 1310 and four or eight CWDM wavelengths
- LC connectors (SC version available)
- Color coded for easy installation
- Reliable passive WDM technology
- Ring or point-to-point applications
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliant

## **1310/CWDM MUX/DEMUX (type II) Plug-in Module**



1310/CWDM plug-in module is a passive optical multiplexer/demultiplexer designed to add CWDM wavelengths to an existing 1310nm backbone ring. The module multiplexes and demultiplexes a single 1310nm wavelength and four or eight additional CWDM wavelengths in a two-fiber ring network.

This MUX/DEMUX module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis based system offers network equipment manufacturers a more scalable and higher-density solution to add CWDM capability to their existing and new networks with simple pluggable interface.

Finisar's CWDM product 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.

## **1310/CWDM MUX/DEMUX (Type II) 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: LC/PC or LC/APC
- Equipment side: LC/PC or LC/APC

#### **Optical**

**Wavelengths Ports:**

MUX/DEMUX-1310/CWDM-4 Plug-in

- 1310nm
- 1471nm
- 1511nm
- 1551nm
- 1591nm

MUX/DEMUX-1310/CWDM-8 Plug-in

- 1310nm
- 1471nm • 1491nm
- 1511nm • 1531nm
- 1551nm • 1571nm
- 1591nm • 1611nm

**Directivity:**

≥ 55dB

**Return Loss:**

≥ 45dB

**PDL:**

≤ 0.15dB

**PMD:**

≤ 0.2ps

**Environmental:**

- Operating 0 to 70°C
- Relative humidity: 10 to 85%, non-condensing
- Storage - 40 to 85°C

## 1310/CWDM MUX/DEMUX (type II) Plug-in Module Parameter Specifications

### FWSF-M/D-1310/CWDM-4

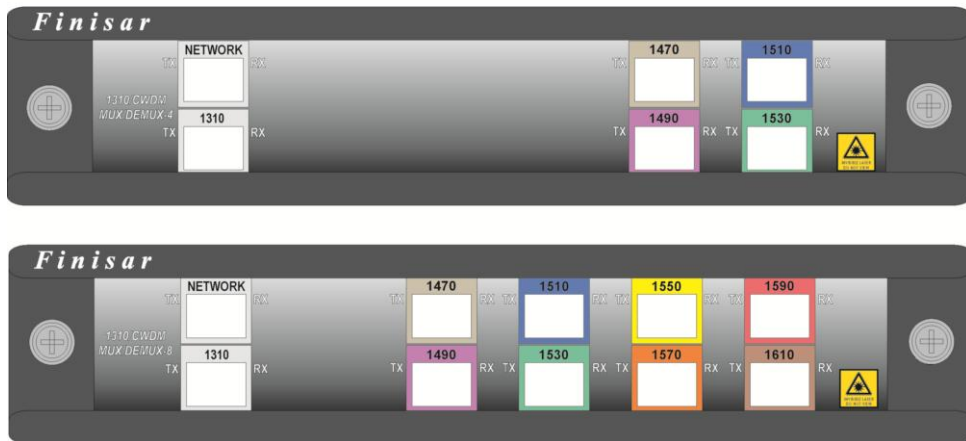
Channel	Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
		Mux	Demux	Mux	Demux
1310 channel	1260nm-1360nm	1.1	1.1	30	45
CWDM channels	CWL+/-6.5nm	2.4	2.7	30	45

### FWSF-M/D-1310/CWDM-8

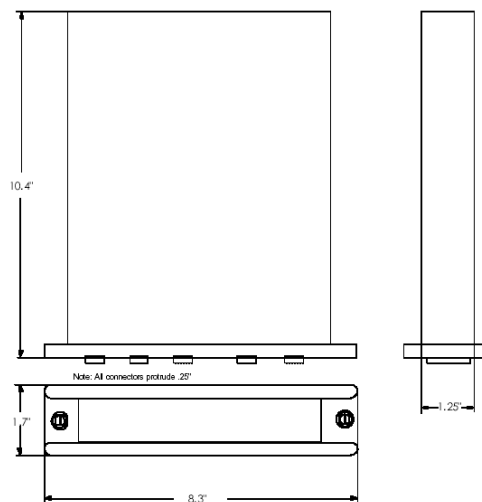
Channel	Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
		Mux	Demux	Mux	Demux
1310 channel	1260nm-1360nm	1.1	1.1	30	45
CWDM channels	CWL+/-6.5nm	3.2	3.5	30	45

Note: Connector loss included

### Front Panel



### Dimensions (Unit: inch)



### Ordering Information

#### Part Number Description

FWSF-M/D-1310/CWDM-4-LC	Four Wavelength Plug-in Module for FWSF-CHASSIS-2, 1471nm, 1511nm, 1551nm, 1591nm, LC/PC connectors
FWSF-M/D-1310/CWDM-4-LA	Four Wavelength Plug-in Module for FWSF-CHASSIS-2, 1471nm, 1511nm, 1551nm, 1591nm, LC/APC connectors
FWSF-M/D-1310/CWDM-8-LC	Eight Wavelength Plug-in Module for FWSF-CHASSIS-2, 1471nm to 1611nm, LC/PC connectors
FWSF-M/D-1310/CWDM-8-LA	Eight Wavelength Plug-in Module for FWSF-CHASSIS-2, 1471nm to 1611nm, LC/APC connectors