

## Features:

- Low Optical Insertion Loss
- Cost-effective WDM technology
- Terminates 1550 and Combined CWDM Wavelengths
- Dual SC or LC connectors for interfacing
- Reliable passive WDM optical technology
- Ring or point to point applications
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- Compliance with RoHS

## 1550/CWDM MUX/DEMUX-2 Plug-in Module



The Finisar 1550/CWDM MUX/DEMUX-2 plug-in module is a passive optical multiplexer/demultiplexer designed to add CWDM wavelengths to an existing 1550nm backbone ring. The 1550/CWDM MUX/DEMUX-2 plug-in module multiplexes and demultiplexes a single banded 1550nm wavelength and additional combined CWDM wavelengths. This allows existing two-fiber backbone rings to be easily upgraded with wavelengths that are transparent in operation to the existing 1550 wavelength. The combined CWDM port covers five wavelengths: 1470nm, 1490nm, 1510nm, 1590nm and 1610nm.

The 1550/CWDM MUX/DEMUX-2 plug-in module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. The equipment side SC or LC connector interface allows a network engineer to add/drop CWDM capability to any existing network device that supports GBIC and SFP interfaces.

The Finisar MUX/DEMUX plug-in 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.

## 1550/CWDM MUX/DEMUX-2 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: 1 dual SC/PC or LC/PC
- Equipment side: 2 dual SC/PC or LC/PC

#### Optical

##### Center Wavelengths:

- MUX/DEMUX-1550/CWDM-2 Plug-in
- Banded 1550nm
- 1464nm-1528nm and 1584nm-1618nm

##### Directivity:

≥ 55 dB

##### Return Loss:

≥ 45 dB

##### Passband Ripple:

≤ 0.5dB

##### PDL:

≤ 0.15dB

##### PMD:

≤ 0.2ps

##### Environmental:

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

## 1550/CWDM MUX/DEMUX-2 Plug-in Module Parameter Specifications

### 1550 Port

Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
	Mux	Demux	Mux	Demux
+/-25nm	0.9	0.9	30	30

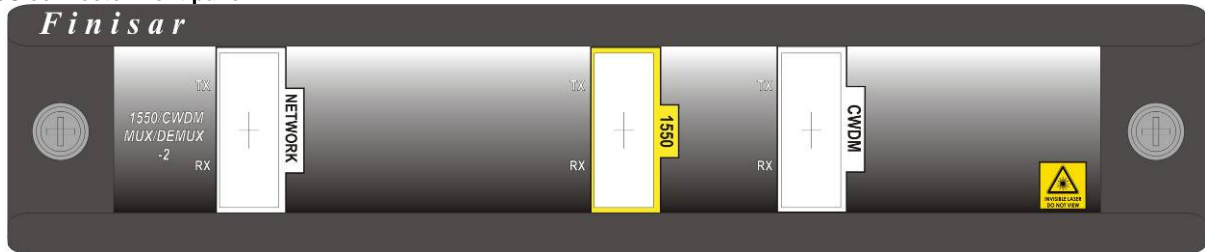
### Combined CWDM port

Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
	Mux	Demux	Mux	Demux
1464nm -1518nm & 1584nm -1618nm	0.7	0.7	15	15

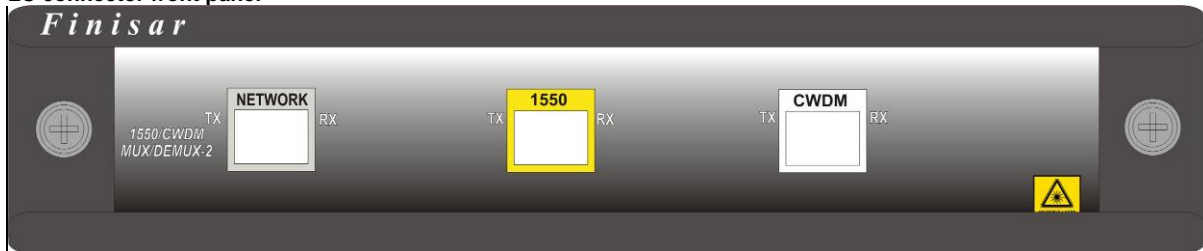
Note: Connector loss included

## Front Panel

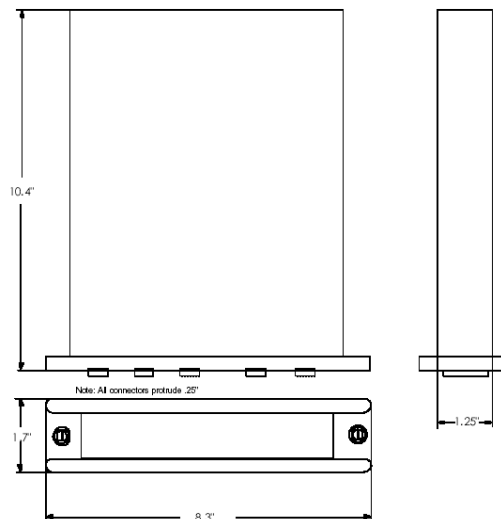
### SC connector front panel



### LC connector front panel



## Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

FWSF-M/D-1550/CWDM-2	1550/CWDM MUX/DEMUX-2 Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-M/D-1550/CWDM-2-LC	1550/CWDM MUX/DEMUX-2 Plug-in Module for FWSF-CHASSIS-2, LC connectors