

Features:

- Low optical insertion loss
- Cost-effective WDM technology
- Terminates 1550 and combined CWDM wavelengths
- SC connectors (LC version available)
- Reliable passive WDM technology
- Ring or point to point applications
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliant

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



1550/CWDM plug-in module is a passive optical multiplexer /demultiplexer designed to add CWDM wavelengths to an existing 1550nm backbone ring. The module multiplexes and demultiplexes a single 1550nm wavelength and the complete CWDM wavelength grid from 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.

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 |

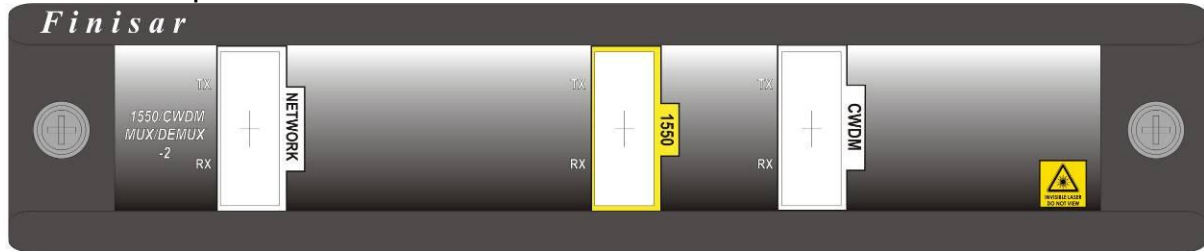
Combined CWDM port

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

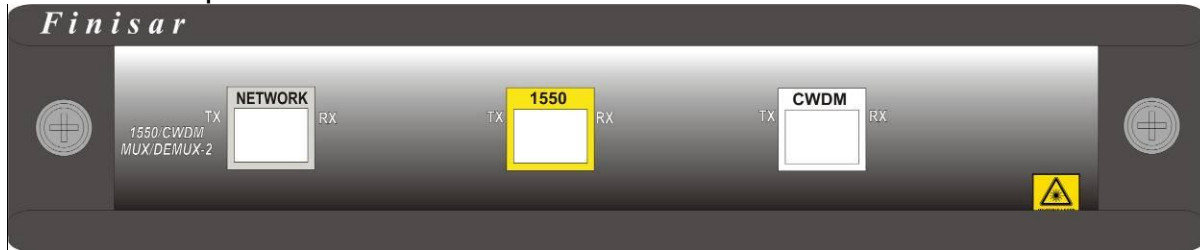
Note: Connector loss included

Front Panel

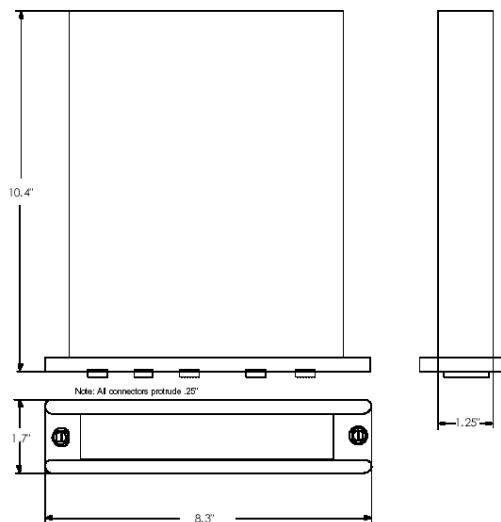
SC connector front panel



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 |