



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Features:

- Low optical insertion loss
- Cost-effective WDM technology
- Terminates 1550 and five CWDM wavelengths
- SC connectors (LC 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

# 1550/CWDM MUX/DEMUX 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 five 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.

## 1550/CWDM MUX/DEMUX 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: 6 dual SC/PC or LC/PC

#### Optical

##### Center Wavelengths:

MUX/DEMUX-1550/CWDM Plug-in

- Banded 1550nm CWDM Wavelengths
- 1471 nm
- 1491 nm
- 1511 nm
- 1591 nm
- 1611 nm

##### 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 Plug-in Module Parameter Specifications

## 1550 Port

Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
	Mux	Demux	Mux	Demux
+/-25nm	1.50	1.50	30	30

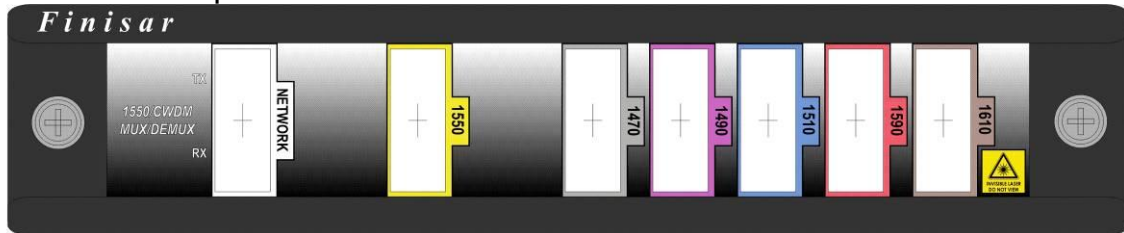
## CWDM Grid Port

Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
	Mux	Demux	Mux	Demux
+/- 6.5nm	2.0	2.0	30	30

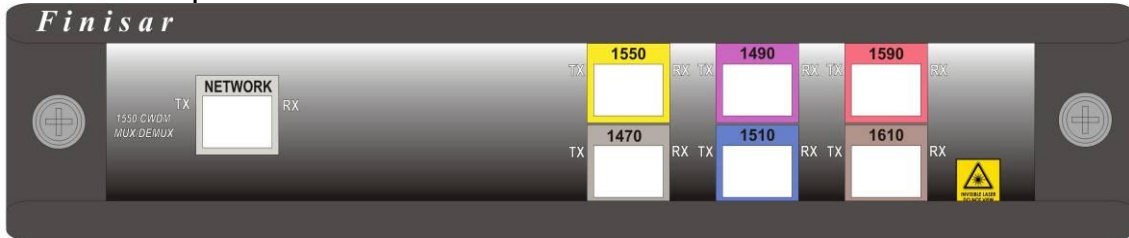
Note: Connector loss included.

## Front Panel

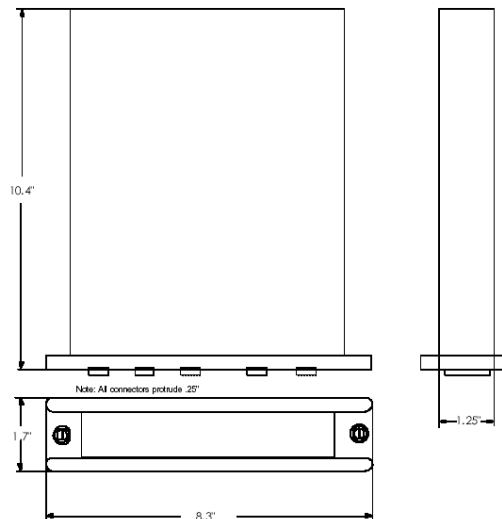
### SC connector front panel



### LC connector front panel



## Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

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