



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Features:

- Low optical insertion loss
- Cost-effective CWDM technology
- Mux/Demux four wavelengths
- SC connectors (LC version available)
- Color coded for easy installation
- Reliable passive WDM technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliance

# CWDM MUX/DEMUX-4-2 Plug-in Module



CWDM MUX/DEMUX-4-2 plug-in module is a passive optical multiplexer/demultiplexer designed to add and drop CWDM wavelength channels to an existing backbone ring. The module multiplexes and demultiplexes four CWDM wavelengths from a two-fiber ring, going in opposite directions into a 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.

## MUX/DEMUX-4-2 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: 4 dual SC/PC or LC/PC

#### Optical

##### Center Wavelengths:

- MUX/DEMUX-4-2 Plug-in
- 1491 nm
  - 1531 nm
  - 1571 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

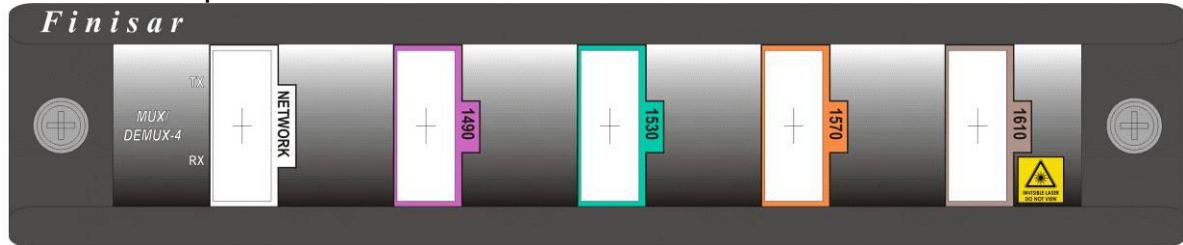
## MUX/DEMUX-4-2 Plug-in Module Parameter Specifications

Passband	Max Insertion Loss (dB)		Min Isolation (dB)	
	Mux	Demux	Mux	Demux
+/- 6.5nm	2.30	2.30	30	50

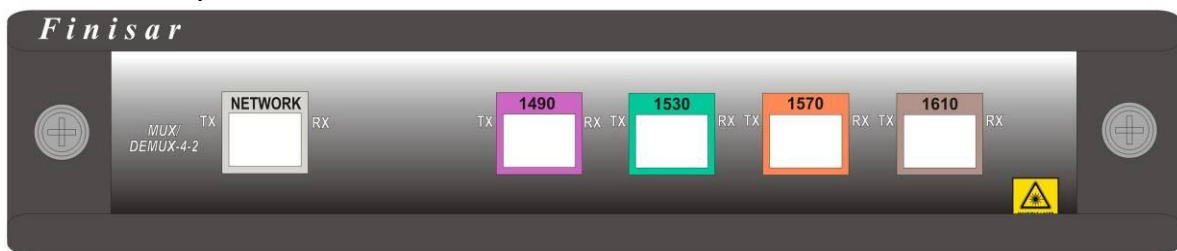
Note: Connector loss included

### Front Panel

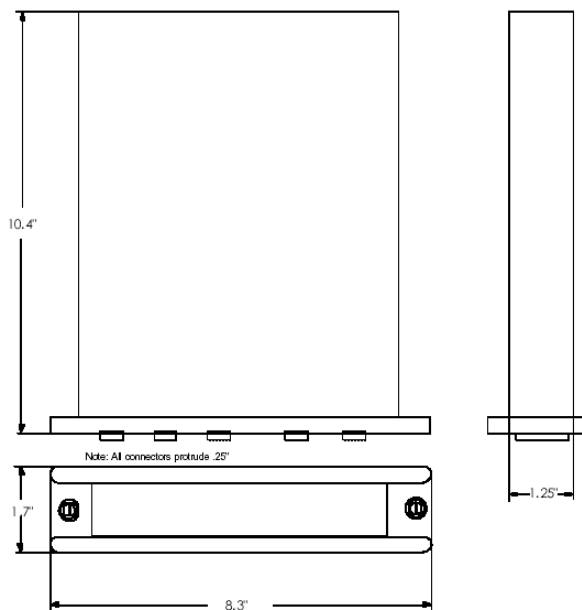
#### SC connector front panel



#### LC connector front panel



### Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

FWSF-M/D-4-2	Four Wavelengths MUX/DEMUX Plug-in Module for FWSF-CHASSIS-2, 1491nm, 1531nm, 1571nm, 1611nm, SC connectors
FWSF-M/D-4-2-LC	Four Wavelengths MUX/DEMUX Plug-in Module for FWSF-CHASSIS-2, 1491nm, 1531nm, 1571nm, 1611nm, LC connectors