



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 CWDM technology
- Terminates four wavelengths
- SC or LC connectors for interfacing
- Reliable passive WDM optical technology
- Ring or point-to-point applications
- Low-profile modular design
- Compliance with RoHS

## CWDM MUX/DEMUX-4-EX Optibox Module



The Finisar MUX/DEMUX-4-EX optibox module is a passive optical multiplexer/demultiplexer designed for metro access applications that represents the state of the art in fiber optics design. The MUX/DEMUX-4-EX optibox module multiplexes and demultiplexes four CWDM wavelength channels from a two-fiber circuit and passes the other channels. Finisar's design allows the creation of cost-effective unidirectional network traffic rings or point-to-point links.

Multiplexed wavelengths are interfaced to any of Finisar's CWDM transceivers on the equipment side. A grid of eight CWDM wavelengths is available from Finisar.

The Finisar MUX/DEMUX optibox 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.

## MUX/DEMUX- 4- EX Optibox Module

### Specifications

#### Mechanical

##### Dimensions:

5.5" x 3.2" x 0.5"  
139mm x 81mm x 13mm

##### Connectors:

- SC or LC connectors

#### Optical

##### Center Wavelengths:

MUX/DEMUX-4-EX Optibox

- 1471 nm
- 1511 nm
- 1551 nm
- 1591 nm
- EX PORT

##### Directivity:

≥ 55 dB

##### Return Loss:

≥ 45 dB

##### Passband Ripple:

≤ 0.5dB

##### PDL:

≤ 0.15dB

##### PMD:

≤ 0.2 ps

##### Environmental:

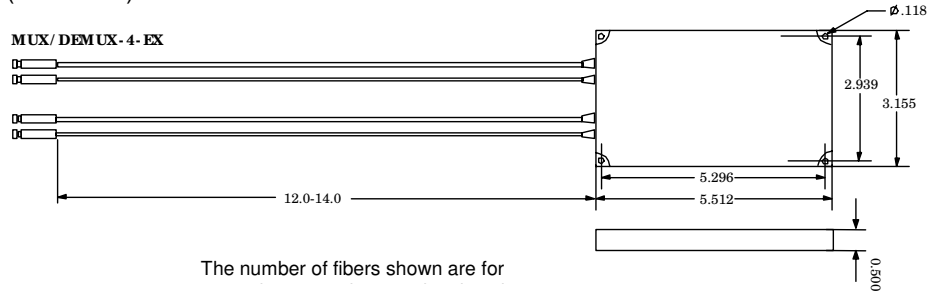
- Operating 0 to 70°C,
- Relative humidity:  
10 to 85%,  
non-condensing
- Storage - 40 to 85°C

## MUX/DEMUX-4-EX Optibox Module Parameter Specifications

Passband	Max Insertion Loss (dB)			Min Isolation (dB)		
	Mux	Demux	Ext	Mux	Demux	Ext
+/- 6.5nm	2.30	2.30	2.15	30	50	14

**Note:** Connector loss included.

### Dimensions (Unit: inch)



\*All measurements are in inches

## Ordering Information

### Part Number Description

M/DF-4-EX-LC	Four Wavelengths MUX/DEMUX w/ Expansion Port Optibox Module, LC connectors, 1471nm, 1511nm, 1551nm, 1591nm.
M/DF-4-EX-SC	Four Wavelengths MUX/DEMUX w/ Expansion Port Optibox Module, SC connectors, 1471nm, 1511nm, 1551nm, 1591nm.