

## Features:

- Low Optical Insertion Loss
- Cost-effective CWDM technology
- Adds/drops one Wavelength
- Dual SC or LC connectors for interfacing
- Color Coded for ease of installation
- Reliable passive WDM optical Technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- Compliance with RoHS

## CWDM OADM-1 Plug-in Module



The Finisar OADM-1 plug-in module is a passive optical add/drop multiplexer designed for metro access applications that represents the state of the art in fiber optics design. The OADM-1 plug-in module adds/drops two CWDM channels of the same wavelength from network traffic and passes the other channels. Finisar's unique CWDM design maps the two added/dropped channels into separate two-fiber paths, going in opposite directions into the network (East/West).

Added/dropped channels are interfaced to any of Finisar's CWDM transceivers on the equipment side. A grid of eight CWDM wavelengths is available from Finisar. The OADM-1 Plug-in Module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis based system allows a network equipment manufacturer to add WDM capability to any existing network device.

The equipment ports of the OADM-1 plug-in module are color coded to match the wavelength of Finisar's CWDM transceiver. This allows ease of installation and trouble shooting without having to remove the transceiver from the local equipment.

The Finisar OADM-1 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.

## OADM-1 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: 2 dual SC/PC or LC/PC
- Equipment side: 2 dual SC/PC or LC/PC

#### Optical

##### Center wavelengths: (8 versions):

- 1471 nm
- 1491 nm
- 1511 nm
- 1531 nm
- 1551 nm
- 1571 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

## OADM-1 Plug-in Module Parameter Specifications

Passband	Max Insertion Loss (dB)			Min Isolation (dB)		
	Add	Drop	Pass	Add	Drop	Pass
+/- 6.5nm	1.30	1.30	1.40	30	50	28

Note: Connector loss included

### Front Panel

#### SC connector front panel



#### LC connector front panel



### Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

FWSF-OADM-1-47	Single Wavelength (1471 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-49	Single Wavelength (1491 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-51	Single Wavelength (1511 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-53	Single Wavelength (1531 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-55	Single Wavelength (1551 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-57	Single Wavelength (1571 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors
FWSF-OADM-1-59	Single Wavelength (1591 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors

Finisar Shanghai Inc.  
 No. 66 Huiqing Rd., East Zhangjiang Hi-Tech Park, Shanghai,  
 China 201201  
 Main: +86-21-38559200 Fax: +86-21-68919894  
 Website: [www.finisar.com](http://www.finisar.com)

Finisar Corporation  
 1308 Moffett Park Drive, Sunnyvale, CA 94089-1133, USA  
 Main: (408) 548-1000 Fax: (408)543-0083  
 Email: [sales@finisar.com](mailto:sales@finisar.com) Website: [www.finisar.com](http://www.finisar.com)

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FWSF-OADM-1-61 Single Wavelength (1611 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors  
FWSF-OADM-1-47-LC Single Wavelength (1471 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-49-LC Single Wavelength (1491 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-51-LC Single Wavelength (1511 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-53-LC Single Wavelength (1531 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-55-LC Single Wavelength (1551 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-57-LC Single Wavelength (1571 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-59-LC Single Wavelength (1591 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors  
FWSF-OADM-1-61-LC Single Wavelength (1611 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, LC connectors

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9