Finisar

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 70ºC
• Relative humidity: 10 to 85%, non-condensing
•Storage - 40 to 85ºC

Finisar Shanghai Inc.
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Finisar Corporation
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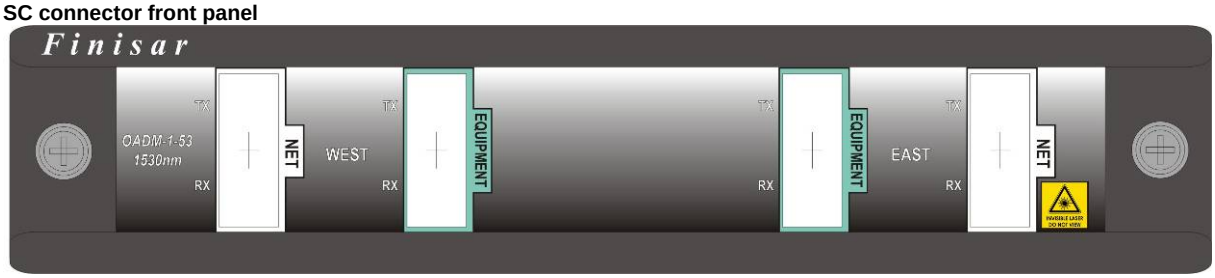
OADM-1 Plug-in Module Parameter Specifications

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

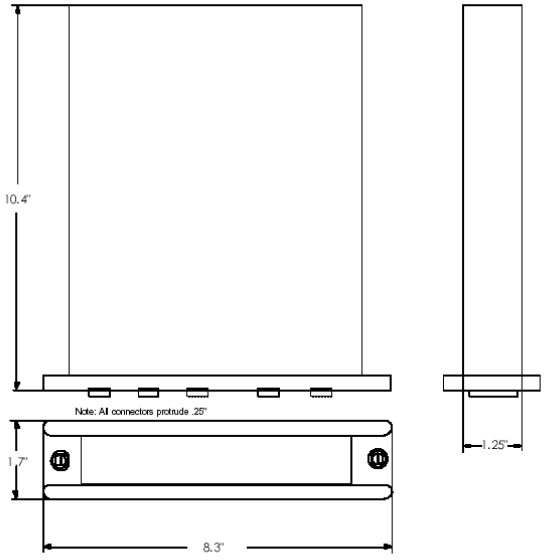
SC connector front panel



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

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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

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