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Features:

- **Low optical insertion loss**
- **Cost-effective CWDM technology**
- **Adds/drops one Wavelength**
- **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 compliant**

CWDM OADM-1 Plug-in Module



OADM-1 plug-in module is a passive optical multiplexer /demultiplexer designed to add and drop CWDM channels into an existing backbone ring. The module multiplexes and demultiplexes one CWDM wavelength from a two-fiber ring, going in opposite directions into a network (east/west).

This OADM 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 OADM 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.

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

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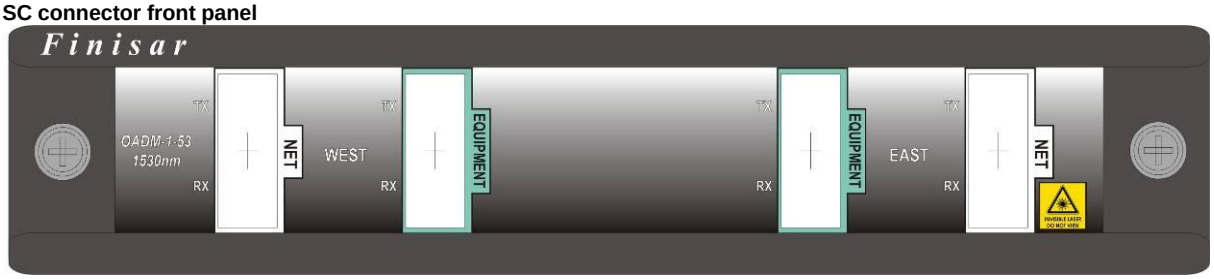
OADM-1 Plug-in Module Parameter Specifications

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

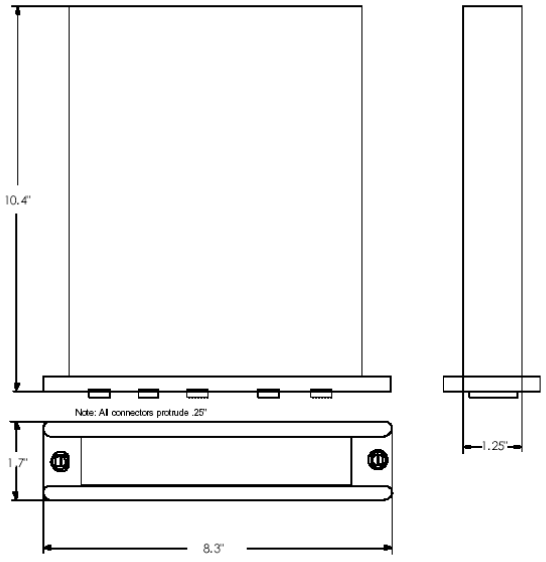
SC connector front panel



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
FWSF-OADM-1-61	Single Wavelength (1611 nm) Optical Add/Drop MUX Plug-in Module for FWSF-CHASSIS-2, SC connectors

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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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