

Features:

- Low optical insertion loss
- Mux/Demux four/eight wavelengths
- SC connectors (LC version available)
- Reliable passive WDM technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliant

4/8 Channels 100GHz DWDM MUX/DEMUX Plug-in Module



Four or eight channel FWSFMDMUXDwxxxy DWDM Plug-in module is a passive optical multiplexer/demultiplexer designed for metro access applications that represent the state of the art in fiber optics design. These MUX/DEMUX modules multiplex and demultiplex four or eight DWDM wavelengths of 100GHz channel spacing into two-fiber paths, going in opposite directions into a network (east/west).

The 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 DWDM capability to their existing and new networks with simple pluggable interface.

Finisar's DWDM 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.

FWSFMDMUXDwxxxy Plug-in Module

Product selection

FWSFMDMUXDwxxxy

w	Channel number (w=8, 4 channels)
xx	The first channel ID (see below table channel wavelength)
yy	The last channel ID (see below table channel wavelength)

Channel ID ("xx"/"yy")	Center Wavelength (nm)	Channel ID ("xx"/"yy")	Center Wavelength (nm)	Channel ID ("xx"/"yy")	Center Wavelength (nm)
61	1528.773	40	1545.322	20	1561.419
60	1529.553	39	1546.119	19	1562.233
59	1530.334	38	1546.917	18	1563.047
58	1531.116	37	1547.715	17	1563.863
57	1531.898	36	1548.515	16	1564.679
56	1532.681	35	1549.315	15	1565.496
55	1533.465	34	1550.116	14	1566.314
54	1534.250	33	1550.918	13	1567.133
53	1535.036	32	1551.721	12	1567.952
52	1535.822	31	1552.524	11	1568.773
51	1536.609	30	1553.329	10	1569.594
50	1537.397	29	1554.134	09	1570.416
49	1538.186	28	1554.940	08	1571.239
48	1538.976	27	1555.747	07	1572.063
47	1539.766	26	1556.555	06	1572.888
46	1540.557	25	1557.363	05	1573.714
45	1541.349	24	1558.173	04	1574.540
44	1542.142	23	1558.983	03	1575.368
43	1542.936	22	1559.794	02	1576.196
42	1543.730	21	1560.606	01	1577.025
41	1544.526				

For example: **FWSFMDMUXD82734** – 8 channels, from CH27 to CH34, 100 GHz DWDM MUX/DEMUX plug-in module, SC connector.

Specifications

Mechanical

Dimensions:

8.3" x 1.7" x 10.4",
210mm x 43mm x 264mm,
plug-in for 1RU rack-mount

Connectors:

FWSFMDMUXDwxyy
• SC/PC

Environmental:

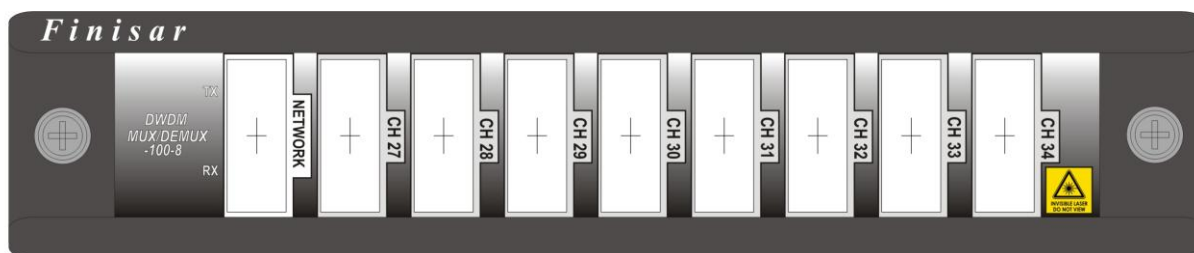
- Operating -5 to 70°C
- Relative humidity:
10 to 85%, non-condensing
- Storage - 40 to 85°C

FWSFMDMUXDwxyy Parameter Specifications (connector loss included)

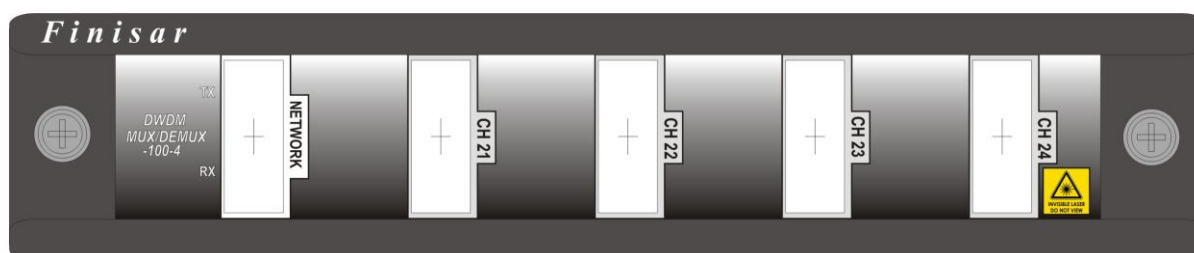
Parameter			Specifications		Unit
Center Wavelength		-	ITU Grid Channels		nm
Channel Spacing		-	100		GHz
Channel Pass band		-	ITU± 0.11		nm
Pass Band Insertion Loss		Max	8 channels	4 channels	dB
			3.0	2.0	
Pass Band Ripple		Max	0.4		dB
Adjacent Channel Isolation	Mux side	Min	15		dB
	Demux side	Min	30		
Non- Adjacent Channel Isolation	Mux side	Min	15		dB
	Demux side	Min	40		
Optical Return Loss		Min	45		dB
Directivity		Min	50		dB
Polarization Dependent Loss		Max	0.2		dB
Polarization Mode Dispersion		Max	0.2		ps
Optical Power Handling		Max	500		mW

Front Panel (Channel description is only for example)

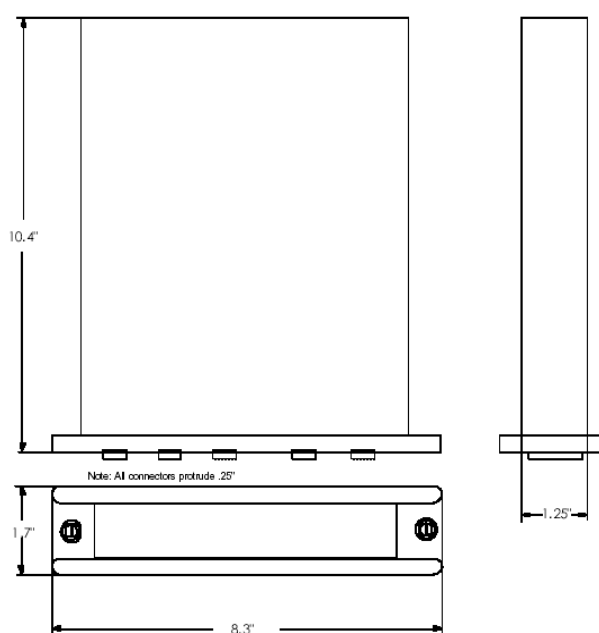
8 Channel 100 GHz DWDM MUX/DEMUX front panel



4 Channel 100GHz DWDM MUX/DEMUX front panel



Dimensions (Unit: inch)



Mouser Electronics

Authorized Distributor

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Finisar:

[FWSFMDMUXD42124](#) [FWSFMDMUXD84148](#)