

13 Channel DWDM Multiplexer/Demultiplexer (Mux/Demux)

MDX-13MX2001A

MDX-13DX2001A



Key Features

- Multiplexes 13 DWDM, 200 GHz spaced channels onto one fiber
- Interfaces with widely available ITU transponder cards
- Can be used instead of expensive DWDM systems
- Optical monitoring of all active channels
- High isolation, low insertion loss
- Fits standard LGX configurations and the WaveReady™ DenseMount Shelf
- Small, compact packaging
- Passive optics, no electrical power required

Applications

- Increase network capacity using DWDM
- External optical monitoring
- Fiber conservation using passive DWDM technology

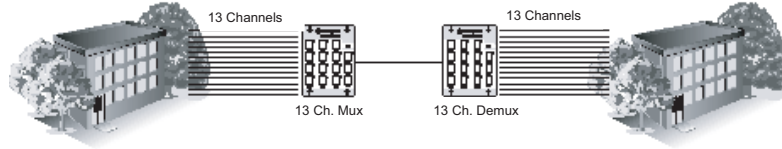
The WaveReady 3000 series 13 Channel DWDM Multiplexer/Demultiplexer modules can be used instead of expensive DWDM systems to conserve fiber and solve fiber exhaust problems.

13 Channel DWDM Mux/Demux modules have low-loss narrowband filters that allow 13 DWDM, 200 GHz spaced channels to be multiplexed onto a single fiber. Optical monitoring of the common fiber is possible through an SC port.

These reliable, high-performance devices interface with the DWDM transponder cards of widely available transmission equipment. Standard LGX™ casing guarantees easy deployment. An optional mounting bracket allows installation in a WaveReady 3500 DenseMount Shelf.

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13 Channels to a Site Connected Through One DWDM Link



Channel Plan

Channel	Wavelength	Channel	Wavelength	Channel	Wavelength
1	1530.33 nm	6	1541.35 dB	10	1552.52 dB
2	1533.47 nm	7	1547.72 dB	11	1555.75 dB
3	1535.04 nm	8	1549.32 dB	12	1557.36 dB
4	1538.19 nm	9	1550.92 dB	13	1558.98 dB
5	1539.77 nm				

Note: Channel plans can be suited to meet specific customer requirements.

Specifications

Parameter	Multiplex and Demultiplex, All Channels
End-to-end insertion loss ¹	Maximum 7.0 dB
Passband at -0.5 dB, center wavelength	Minimum ±0.25 nm
Flatness	Maximum 0.5 dB
Isolation for adjacent channel	Minimum 30 dB
Isolation for non-adjacent channel	Minimum 50 dB
Polarization dependent loss	Maximum 0.2 dB
Optical return loss	Minimum 45 dB
Dimension (W x H x D)	84.1 x 129.5 x 160.5 mm (3.3 x 5 x 6.3 in), 3U high LGX box
Weight	0.5 kg
Optical connector	SC/PC bulkhead, all ports
Operating temperature	-5 to 65 °C
Storage temperature	-40 to 85 °C
Humidity	Maximum 85% RH, non-condensing

1. When the 13 Channel DWDM mux and the 13 Channel DWDM demux are used as a pair.

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: MDX-13MX2001A

Product Code	CLEI Code	Model
MDX-13MX2001A	WMMC26EBRB	13 Channel DWDM Mux PWS 01
MDX-13DX2001A	WMMC36EBRB	13 Channel DWDM Demux PWS 01

Associated Part

Product Code	Description
10129126	DenseMount Shelf
ADA-03LGXDMS	LGX-to-DMS Adapter, three-slot

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