

## 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

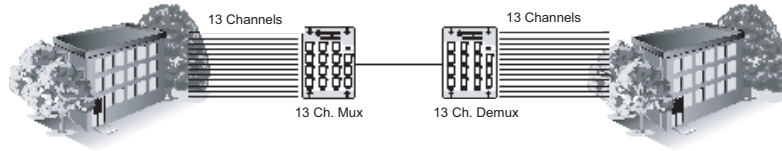
The WaveReady 3000 series 13 Channel DWDM Multiplexer/Demultiplexer modules can be used instead of expensive DWDM systems to conserve fiber and solve fiber exhaust problems.

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.

## 2

### 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 <sup>1</sup>	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.

# 3

## 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](mailto: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

LGX is a registered trademark of Lucent Technologies.

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. JDSU reserves the right to change at any time without notice the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein. JDSU makes no representations that the products herein are free from any intellectual property claims of others. Please contact JDSU for more information. WaveReady, JDSU and the JDSU logo are trademarks of JDS Uniphase Corporation. Other trademarks are the property of their respective holders. ©2005 JDS Uniphase Corporation. All rights reserved. 10143032 Rev.002 11/05 MDX13.DS.CMS.AE