

Product Bulletin



WD813 Series 830/1300 nm WDM Couplers

The WD813 Series couplers are available for bidirectional and unidirectional applications and feature wide wavelength channels in the 830 and 1300 nm bands.

The WD813 Series high performance broadband WDMs allow multiplexing and demultiplexing of channels with 830 and 1310 nm bands, while providing low loss and high isolation.

Key Features

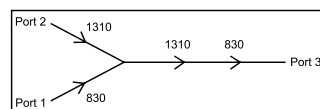
- Low loss
- Low crosstalk
- Cost effective solution
- Buffered fiber or cable packages
- GRIN lens/interference filter design
- Wide spectral channels 760 to 900/1200 to 1600 nm

Applications

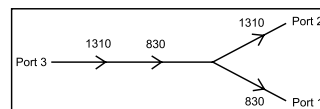
- Multiplexing and demultiplexing
- Unidirectional and bidirectional applications

Configurations

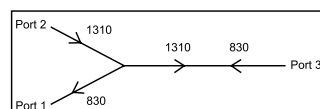
WD813M
Unidirectional multiplexer



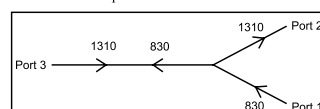
WD813D
Unidirectional demultiplexer



WD813X
Bidirectional coupler for 1300 nm mux/1550 nm demux



WD813Y
Bidirectional coupler for 1300 nm demux/1550 nm mux



Same model is used for multiplexing, demultiplexing, or bidirectional application.

Specifications

Parameter	Specification
830 nm channel	760 to 900 nm
1300 nm channel	1200 to 1600 nm
Insertion loss ¹	<1.0 dB
Unidirectional isolation	830 nm channel ² >15 dB 1300 nm channel >30 dB
Bidirectional directivity	>40 dB
Return loss	>23 dB
Polarization dependent loss ¹	<0.1 dB (typically 0.04 dB)
Fiber length	1.5 m standard
Dimensions (W x H x D)	8.9 x 8.9 x 45.7 mm (900 µm coated fiber) 8.1 x 14.7 x 82.6 mm (3 mm coated fiber)
Operating temperature	0 to 70 °C
Storage temperature	-40 to 85 °C

1. Excluding connector loss.

2. This isolation is greatly improved if a silicon detector is used in a short wavelength receiver.

Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact your local JDS Uniphase sales representative or JDS Uniphase directly at 613 727-1303, or by fax at 613 727-8284, or via e-mail at sales@ca.jdsunph.com, or visit our Web site at www.jdsunph.com.

Sample: WD813X+1C11CNC1.5

WD813 **+1** **1.5**

Code	Model
M	WD813M
D	WD813D
X	WD813X
Y	WD813Y

Code	Fiber
B	50/125
C	62.5/125

Code	Buffer Size
11	900 µm tight buffer
02	3.0 mm jacketed cable

Code	Packaging
C	8.9 x 8.9 x 45.7 mm (900 µm)
D	8.1 x 14.7 x 82.6 mm (3 mm)

Code	Connector Type
NC	No connector
FP	FC/HPC
SC	SC/HPC
SP	ST/HPC
DP	D4/HPC
BC	Biconic
VA	SMA



JDS Uniphase Corporation
570 West Hunt Club Road
Nepean (Ottawa), Ontario
K2G 5W8 Canada

Tel 613 727-1303
Fax 613 727-8284
sales@ca.jdsunph.com
www.jdsunph.com

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