

# Product Bulletin



## WD356 Series 1300+1550/1625 nm Monitoring WDM Couplers

The WD356 Series of WDM couplers is designed to provide a flexible fiber monitoring solution for 1310 and 1550 nm transmission channels using either the 1625 or 1650 nm channel.

### Key Features

- Low loss
- High isolation
- Unidirectional or bidirectional transmission
- Wide spectral channels
- Network transparent
- Cost-effective solution
- Flexible configuration
- Universal product available to cover all applications in a single device

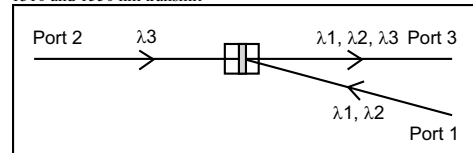
### Applications

- Fiber and system monitoring using 1625 or 1650 nm channels

### Configuration

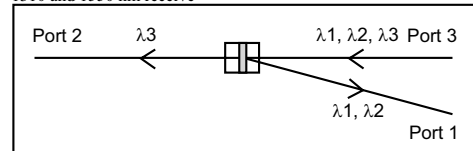
#### WD356M

Unidirectional multiplexer for 1615 to 1690 nm transmit/  
1310 and 1550 nm transmit



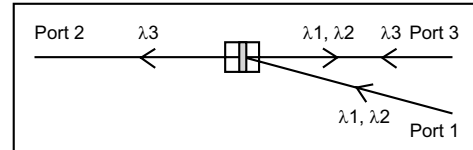
#### WD356D

Unidirectional demultiplexer for 1615 to 1690 nm receive/  
1310 and 1550 nm receive



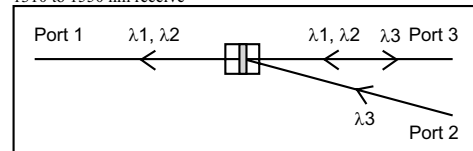
#### WD356X

Bidirectional X coupler for 1310 and 1550 nm transmit/  
1615 to 1690 nm receive



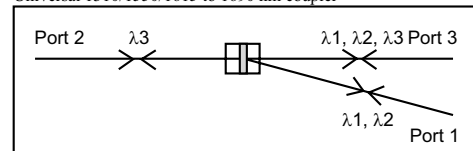
#### WD356Y

Bidirectional Y coupler for 1615 and 1690 nm transmit/  
1310 to 1550 nm receive



#### WD356U

Universal 1310/1550/1615 to 1690 nm coupler



Specifications

Parameter		WD356M	WD356D	WD356X	WD356Y	WD356U
Wavelength $\lambda_1$				1280 to 1360 nm		
Wavelength $\lambda_2$				1500 to 1565 nm		
Wavelength $\lambda_3$				1615 to 1690 nm		
Loss <sup>1</sup> at $\lambda_1$		<0.7 dB	<1.2 dB	<0.7 dB	<0.8 dB	<1.2 dB
Loss <sup>1</sup> at $\lambda_2$		<0.7 dB	<1.2 dB	<0.7 dB	<0.8 dB	<1.2 dB
Loss <sup>1</sup> at $\lambda_3$		<0.8 dB	<0.8 dB	<0.8 dB	<0.7 dB	<0.8 dB
Isolation	Port 3 to 1 at $\lambda_3$	N/A	>40 dB	N/A	>40 dB	>40 dB
	Port 3 to 2 at $\lambda_1$	N/A	>40 dB	>40 dB	N/A	>40 dB
	Port 3 to 2 at $\lambda_2$	N/A	>40 dB	>40 dB	N/A	>40 dB
Return loss (all ports)				>55 dB		
Directivity				>60 dB		
Polarization sensitivity				<0.1 dB		
Polarization dispersion				<0.1 ps		
Connectors				FC, ST, SC		
Fiber type				Single-mode ( $\mu\text{m}$ )		
Dimensions (W x H x D)				5.6 x 5.6 x 38.1 mm (250 $\mu\text{m}$ coated fiber) 8.9 x 8.9 x 45.7 mm (900 $\mu\text{m}$ coated fiber) 8.1 x 14.7 x 82.6 mm (3 mm jacketed fiber) 101.6 x 57.2 x 8.3 mm (models D and U)		
Operating temperature				-5 to 70 °C		
Storage temperature				-40 to 85 °C		

1. Excluding connector loss.

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 JDS Uniphase account manager, or call 1-877-550-JDSU toll free in North America or visit [www.jdsuniphase.com](http://www.jdsuniphase.com).

Sample: WD356X+1A00ANC1

**WD356**  **+1A**       **1**

Code	Model
M	WD356M
D	WD356D
U	WD356U
X	WD356X
Y	WD356Y

Code	Buffer Size
00	250 $\mu\text{m}$ buffered fiber (NC only)
11	900 $\mu\text{m}$ tight buffer
02	3 mm jacketed cable

Code	Connector Type
NC	No connector
FP	FC/HPC
FA	FC/APC
SC	SC/HPC
SU	SC/APC
SP	ST/HPC

Code	Packaging
A	5.6 x 5.6 x 38.1 mm, with tabs (250 $\mu\text{m}$ )
B	5.6 x 5.6 x 38.1 mm, without tabs (250 $\mu\text{m}$ )
C	8.9 x 8.9 x 45.7 mm (900 $\mu\text{m}$ )
D	8.1 x 14.7 x 82.6 mm (3.0 mm)
E	101.6 x 57.2 x 8.3 mm (models D and U)

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