

Product Bulletin



WD1415 Series WDM Couplers for 1480/1550 nm Pumped Erbium Doped Fiber Amplifiers

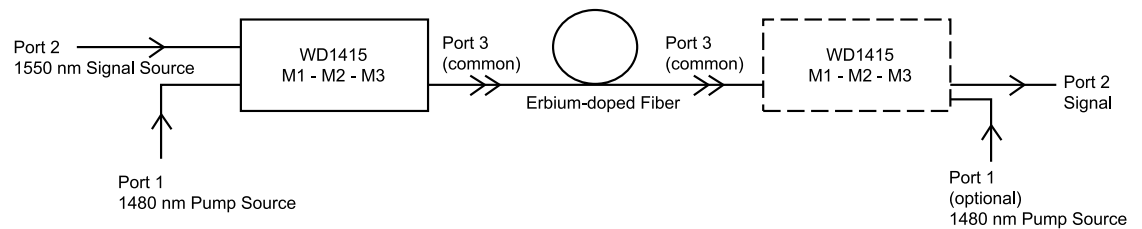
The WD1415 Series WDM couplers are used for efficient coupling of 1480 nm pump sources and 1550 nm signal lasers in erbium doped fiber amplifiers.

The WD1415 couplers are available in three filter configurations (M1, M2, and M3), each designed for specific coupling applications. These filter configurations provide excellent pump and signal combination and reduction of spontaneous pump emission in the signal band. The couplers also offer excellent isolation of the pump from the amplified signal.

Key Features

- Wide spectral channels for both pump and signal wavelengths
- Low insertion loss and excellent return loss
- Minimal polarization dependence
- Blocking of spontaneous emission of pump source in signal band
- Forward or backward pumping

Applications



Specifications

Parameter	M1	M2	M3
1480 nm channel	1462 to 1486 nm	1468 to 1496 nm	1440 to 1500 nm
1550 nm channel	1525 to 1580 nm	1525 to 1580 nm	1530 to 1560 nm
Insertion loss at 1480 nm channel	0.32 dB typical	0.32 dB typical	0.25 dB typical
	0.45 dB maximum	0.45 dB maximum	0.40 dB maximum
Insertion loss at 1550 nm channel	0.25 dB typical	0.25 dB typical	0.32 dB typical
	0.40 dB maximum	0.40 dB maximum	0.45 dB maximum
Return loss	>55 dB		
Polarization stability	<0.05 dB (typical 0.015 dB)		
Fiber type	standard 9/125/250 µm single-mode		
Fiber length	1.5 m standard		
Dimensions (W x H x D)	5.6 x 5.6 x 38.1 mm		
Operating temperature	-40 to 75 °C		
Storage temperature	-40 to 75 °C		

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 613 727-8284, or via email at sales@ca.jdsunph.com, or visit our Web site at www.jdsunph.com.

Sample: WD1415M1+1A00ANC1.5

WD1415M **+1A00** **NC1.5**

Code	Model
1	WD1415M1
2	WD1415M2
3	WD1415M3

Code	Packaging
A	5.6 x 5.6 x 38.1 mm, with tabs
B	5.6 x 5.6 x 38.1 mm, without tabs



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MKT-DS-0008 Rev.D 10/99 Printed in Canada