

Product Bulletin



WD1515 RR/RB Series Red/Blue Band-Split WDM Couplers

The WD1515 RR/RB red and blue, blue and red band WDM couplers are designed for multiplexing and demultiplexing two groups of Dense WDM channels operating within the erbium doped fiber amplifier wavelength window. Each band is 13 nm wide and is therefore capable of carrying eight ITU channels with 200 GHz spacing or 16 ITU channels with 100 GHz spacing. Both unidirectional and bidirectional configurations are supported.

The devices are also compatible with JDS Uniphase's WD5555 Series four-channel WDMs (1533/1541/1549/1557 nm).

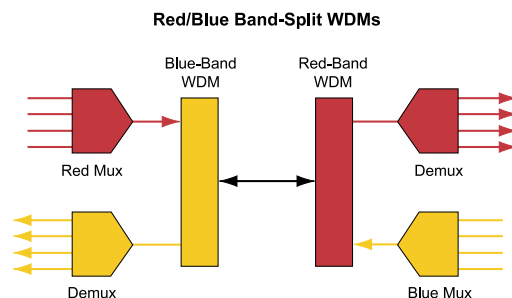
Key Features

- Low insertion loss
- Supports 16 ITU channels
- Compatible with WD5555 Series four-channel WDMs

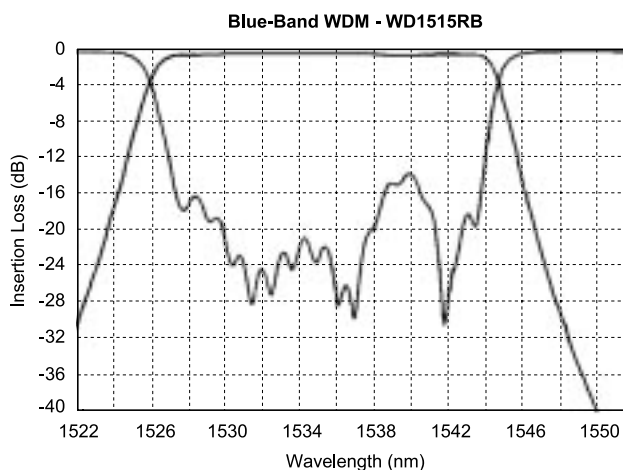
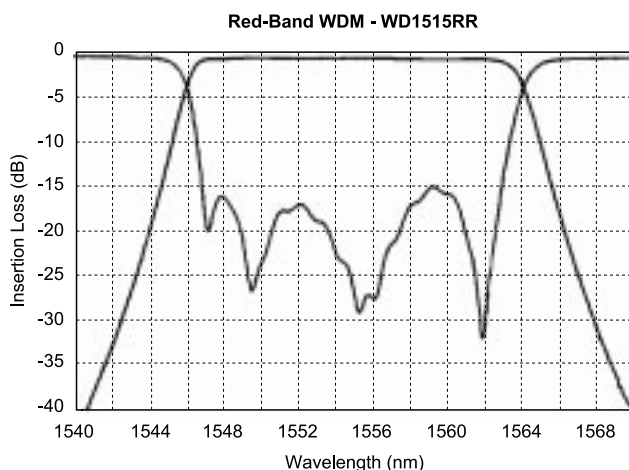
Applications

- Dense WDM networks
- Bidirectional WDM systems
- Optical amplifier systems

Configuration



Performance



Specifications

Parameter	WD1515RR (Red)	WD1515RB (Blue)
Blue band λ_1	1529.5 to 1542.5 nm	
Red band λ_2	1547.5 to 1560.5 nm	
Insertion loss of red band	<1.0 dB	<0.7 dB
Insertion loss of blue band	<0.7 dB	<1.0 dB
Isolation from red band	>11 dB	>20 dB
Isolation from blue band	>20 dB	>11 dB
Return loss (all ports)	>45 dB	
Directivity	>60 dB	
Polarization sensitivity	<0.1 dB	
Polarization dispersion	<0.1 ps	
Fiber type	SMF-28	
Fiber coating diameter	200 or 500 μm	
Dimensions (W x H x D)	5.6 x 5.6 x 38.1 mm or 8.9 x 8.9 x 45.7 mm	
Operating temperature	0 to 50 $^{\circ}\text{C}$	
Storage temperature	-40 to 85 $^{\circ}\text{C}$	

Ordering Information

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.

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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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