

## ***Product Bulletin***



### **3 dB Fused Couplers**

The 3 dB coupler is a compact, low-loss, fused component (1x2 or 2x2) that is bidirectional and provides a means of splitting or combining optical signals. It is designed for use in telecommunications equipment, passive telephony or CATV networks, test equipment, optical fiber amplifiers, and fiber sensors. The coupler utilizes advanced fused-fiber technology to yield ultra-low excess loss and low polarization dependent loss (PDL). The coupler is available for use at 1300 and/or 1550 or at 1585 nm wavelengths. Operation at 1310 or 1310/1550 nm wavelengths is available on request.

#### **Key Features**

- Ultra-low excess loss
- Low PDL
- Single-wavelength, wavelength-flattened, and wideband versions

#### **Applications**

- Passive optical networks

## Specifications

Parameter	Single Wavelength		Wavelength Flattened		Wideband	
Operating wavelength(s)	1300, 1550, or 1585 nm		1300 ±20, 1550 ±20, or 1585 nm ±20		1300 ±20 and 1550 nm ±20	
Grade	AA	A	AA	A	A	BB
Typical excess loss	0.1 dB	0.1 dB	0.1 dB	0.1 dB	0.1 dB	0.2 dB
Maximum insertion loss	3.3 dB	3.6 dB	3.3 dB	3.6 dB	3.6 dB	3.8 dB
Minimum insertion loss	2.8 dB	2.6 dB	2.8 dB	2.6 dB	2.6 dB	2.5 dB
Return loss/directivity	50 dB					
PDL	0.2 dB					
Fiber	Corning SMF-28					
Dimensions	L-type Ø 3.0 x 45 mm (single wavelength)					
	L-type Ø 3.0 x 50 mm (wavelength flattened and wideband)					
	P-type Ø 5.0 x 75 mm					
	R-type 80 x 10 x 8 mm					
Pigtail length	>1000 mm					

## 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: P2SWB13/15B50

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<b>Code</b> <b>Housing</b>		<b>Code</b> <b>Format</b>		<b>Code</b> <b>Operating Wavelength(s)</b>		<b>Code</b> <b>Coupling Ratio</b>									
L	Miniature	S	Single wavelength	13	1300 nm	50	50%								
P	Semi-ruggedized	SWF	Wavelength flattened	15	1550 nm										
R	Fully ruggedized	SWB	Wideband	1585	1585 nm										
				13/15	1300/1550 nm										
<b>Code</b> <b>Port Configuration</b>						<b>Code</b> <b>Grade</b>									
2	1x2					AA		AA							
22	2x2					A		A							
						B		BB							

Corning SMF-28 is a registered trademark of Corning Incorporated.

