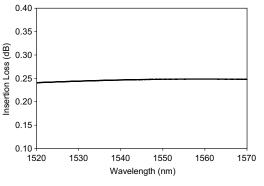
Product Bulletin



Fused Tap Couplers

The tap coupler is a compact, low-loss, fused component (1x2) that provides a means for signal monitoring in erbium doped fiber amplifiers (EDFAs) and optical networks. It utilizes advanced fused-fiber technology to yield ultra-low insertion loss, low polarization dependent loss (PDL), and a flat wavelength response across the erbium gain spectrum. The fused tap coupler can be provided in both C- and L-band versions with a wide range of tap ratios (0.5 to 50%).

Fused 5% Tap Coupler Spectral Response Signal Port 1520 to 1570 nm





Flatter gain, especially when cascading large numbers of amplifiers ${<}0.1~{\rm dB}$ excess loss

Higher gain Lower noise figure

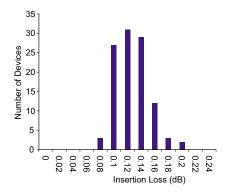
Key Features

- Ultra-low signal loss
- Low and consistent wavelength dependence
- Low PDL

Applications

- Fiber amplifier signal monitoring
- Network monitoring

Fused 2% Tap Couplers 98% Insertion Loss at 1550 nm



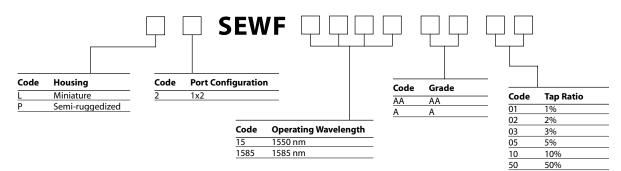
Specifications

Parameter	Fused Tap Couplers					
Operating wavelength range	1530 to 1560 or 1570 to 1600 nm					
Tap ratio	1%	2%	3%	5%	10%	50%
Grade	AA A	AA A	AA A	AA A	AA A	AA A
Typical excess loss	0.1 dB 0.2 dB	0.1 dB 0.2 dB	0.1 dB 0.2 dB	0.1 dB 0.2 dB	0.1 dB 0.2 dB	0.1 dB 0.2 dB
Maximum signal insertion loss	0.2 dB 0.3 dB	0.25 dB 0.35 dB	0.3 dB 0.4 dB	0.4 dB 0.5 dB	0.7 dB 0.8 dB	3.3 dB 3.6 dB
Maximum tap insertion loss	21.5 dB 23.0 dB	18.2 dB 19.0 dB	16.0 dB 17.0 dB	14.0 dB 14.5 dB	11.0 dB 11.5 dB	3.3 dB 3.6 dB
Wavelength dependence						
of tap insertion loss	0.2 dB 0.4 dB	0.2 dB 0.3 dB	0.15 dB 0.3 dB	0.15 dB 0.2 dB	0.1 dB 0.2 dB	0.1 dB 0.2 dB
Return loss/directivity	50 dB					
Polarization dependent loss	0.2 dB 0.3 dB	0.15 dB 0.25 dB	0.15 dB 0.25 dB	0.15 dB 0.25 dB	0.1 dB 0.2 dB	0.1 dB 0.1 dB
(tap port)						
Fiber	Corning SMF-28					
Dimensions	L-type Ø 3.0 x 50 mm					
	P-type Ø 5.0 x 75 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.

Sample: L2SEWF15A01



SMF-28 is a registered trademark of Corning Incorporated.



U.S. and Canada Toll Free: 877-550-JDSU www.jdsuniphase.com

All information contained herein is believed to be accurate and is subject to change without notice. No responsibility is assumed for its use. JDS Uniphase Corporation, its subsidiaries and affiliates, or manufacturer, reserve the right to make changes, without notice, to product design, product components, and product manufacturing methods. Some specific combinations of options may not be available. Please contact JDS Uniphase for more information. ©JDS Uniphase Corporation. All rights reserved. 10113930 Rev.001 05/01