

AFL Tap Coupler



High reliability in a small package - introducing the new AFL tap coupler.

The AFL tap coupler is a compact, low-loss fused tapered component, which provides a means for signal monitoring in Erbium-Doped Fiber Amplifiers and Optical Networks. It utilizes innovative fused fiber technology yielding very low insertion loss, low PDL, and stable reliability when placed into optical monitoring systems. The tap coupler is available with tap ratios of 1%, 3%, 5% and 10%.

AFL has the capability to custom design a variety of packages to meet your telecommunications needs.

FEATURES & BENEFITS

- Low Insertion Loss and PDL
- Low PDL
- High reliability
- Compact size

PRODUCT APPLICATION

- Erbium-Doped Fiber Amplifiers
- CATV
- Optical Network Monitoring

RELATED PRODUCTS

- Dual-Window Wideband Couplers
- 980/1550 and 1480/1550 Pump WDM
- PANDA® Erbium-Doped Module
- 980, 1480, and Raman Polarization Beam Combiners

CLICK HERE

for complete technical specifications, part number, and ordering information.

For pricing, availability, and additional information about this and other Passive Optical Components from Alcoa Fujikura Ltd., please call:

1-800-AFLFIBER

Alcoa Fujikura Ltd. Telecommunications Division

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Innovations to light your way.



AFL Tap Coupler - TECHNICAL SPECIFICATIONS

Parameter			Unit				
Operating Wavelengths			nm	1544 to 1565			
Port Configuration				1 x 2 or 2 x 2			
Tap Ratio				1% (20dB)	3% (15dB)	5% (13dB)	10% (10dB)
Insertion Loss (through port)	Max.	dB		0.25	0.4	0.55	0.66
Insertion Loss (cross port)	Max.	dB		23.0	16.0	14.0	11.1
Polarization Dependent Loss (through port)	Max.	dB		0.1	0.1	0.1	0.05
Polarization Dependent Loss (cross port)	Max.	dB		0.2	0.2	0.2	0.1
Directivity	Min.	dB		50			
Return Loss	Min.	dB		45			
Fiber Type				Fujikura Single Mode Fiber			
Fiber Length (standard)		m		1.0			
Package Dimensions (dia. x length)		mm		3.2 (dia.) x 65 (length)			
Operating Temperature		°C		-40 to 85			
Storage Temperature		°C		-40 to 85			

AFL tap couplers meet or exceed Bellcore GR-1209 and GR-1221 specifications

DESCRIPTION / PART NUMBER / ORDERING INFORMATION

