

Wavelength Division Multiplexer Fiber Coupler (WDM)

High Isolation filter based



FEATURES:

- Low PDL
- Low Loss
- Nearly Zero Back reflection
- Low cost
- High Isolation

APPLICATIONS:

- Passive optical Networks (PoN)
- FTTX
- Optical fiber sensors
- CATV
- Raman amplifiers

FiberLogix uses unique environmentally stable Thin Film technique to make the 1310/1490/1550 WDM. It can be used to combine or split 1310/1490/1550 nm two wavelength optical signals. High power handling capability can be achieved through unique pigtail processing and high quality AR coating. WDM couplers are widely used in PoN, CATV optical network upgrade. WDM can customised to have high isolation up to 35dB for both passband and reflection band.

SPECIFICATIONS:

Passband Wavelength range nm	1270-1350(1530-1600)	1450-1490(1530-1580)	1500-1520(1530-1570)
Operating bandwidth nm	+/-50	+/-10	+/-15
Isolation (typ/min) dB	35/30	30/25	35/30
Insertion Loss (typ/max) dB	0.4/0.6	0.4/0.6	0.5/0.7
Reflection Wavelength range nm	1530-1600(1270-1350)	1530-1580(1450-1490)	1530-1570(1500-1520)
Operating bandwidth nm	+/-15	+/-15	+/-15
Insertion Loss (typ/max) dB	0.4/0.5	0.4/0.5	0.4/0.5
Isolation (typ/min)dB	>12/>10	>12/>10	>12/>10
PDL dB (typ/min)	<0.10/0.05	<0.10/0.05	<0.10/0.05
Thermal stability dB/ °C	<0.005		
Fiber configuration	1x2, 2x2 and 1x3		
Operating temp.	-40°C to 85°C		
Directivity dB	>55		
Fiber type	SMF-28, 1m fiber standard, 900um optional		
Dimension	5.5mmX55mm		

Ordering information:

F	W	D	M	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
Fiber configuration:											Connectors:
12 - 1x2											1 - FC/PC
22 - 2x2											2 - FC/APC
13 - 1x3											
Wavelength:											Fiber type:
3155 -											25 - 250um bare fiber
1310PB/1550/RB											90 - 900um loose tube
5531 -											
1550PB /1310RB											
4855 -											
1480PB/1550RB											
4955 -											
1490PB/1550RB											
5548 -											
1480RB/1550PB											
5155 -											
1510PB/1550RB											
5551 -											
1510RB/1550PB											

FiberLogix International Limited

Ashley House, Vales Industrial Park, Tolpits Lane, Watford, Herts WD18 9QP UK

Tel: +44 (0)1923 777 766 Fax: +44 (0)1923 777 100 Email: sales@fiberlogix.com Web: www.fiberlogix.com

Polarization Maintaining Couplers

All-Fiber fused Biconical tapered configuration



FEATURES:

- All-fiber configuration
- Low Loss
- Nearly Zero Back reflection
- Low cost
- High power handling
- High Extinction ratio

APPLICATIONS:

- Optical Networks
- Raman pump laser
- Optical fiber sensors
- Undersea System
- EDFAs
- Test and Measurement Instruments

Optical Fiber Couplers are reliable passive devices for splitting optical signal in a number of optical network applications. FiberLogix manufactures All-Fiber couplers from proven fused technology with variety of optical performance at different wavelengths to fulfill system designer's requirements. These compact devices provide low insertion loss, extremely low back reflection, good extinction ratio and stability over a variety of environmental conditions. In house process expertise allows extremely tight control on the optical performance, quality and reliability. These devices are designed to meet Telcordia standards GR 1209 and GR 1221.

SPECIFICATIONS:

Wavelength range nm	1300, 1480 and 1550
Fiber configuration	1x2, 2x2 and 1x3
Extinction Ratio(cross talk) dB	Typical 20, Max 23
Wavelength Dependent loss dB	0.1 (through) and 0.3 (cross)
Coupling Ratio	1, 5, and 50%
Insertion Loss (typ) dB	0.7
Directivity dB	>55
Return Loss dB	>70
Operating temp.	-5°C to 85°C
Storage temp.	-40°C
Fiber type	PM Panda fiber
Pigtail option	1m fiber standard, 900um optional

Ordering information:

F	P	M	C	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
					Fiber configuration:		Wavelength:		Coupling Ratio:		Fiber type:		Connectors:		
					12 - 1x2 22 - 2x2 13 - 1x3		13 - 1300nm 14 - 1480nm 15 - 1550nm		01 - 1% 05 - 5% 50 - 50%		25 - 250um bare fiber 90 - 900um loose tube		1 - FC/PC 2 - FC/APC		

FiberLogix International Limited

Ashley House, Vales Industrial Park, Tolpits Lane, Watford, Herts WD18 9QP UK

Tel: +44 (0)1923 777 766 Fax: +44 (0)1923 777 100 Email: sales@fiberlogix.com Web: www.fiberlogix.com