



980/1550nm Wavelength Division Multiplexer (WDM)



Overview:

980/1550nm and 980/1590nm WDM couplers are widely used in EDFA. They combine the pump power and optical signal into the Er-fiber. 980/1550nm WDM is used for EDFA C-band, and the 980/1590nm WDM in EDFA L-band.

The normal couplers were built of Corning HI 1060 Flex or OFS BF05635-02 fiber.

The mixed fiber 980/1550nm WDM uses common SMF-28 standard fiber as coupler's 1550nm signal port, while the 980nm pump port and the common port use Corning HI 1060 Flex or OFS BF05635-02 980nm fiber.

Features:

- * Low insertion loss
- * Low PDL
- * High wavelength isolation
- * High stability and reliability

Applications:

- * EDFA
- * WDM Systems
- * CATV

Specification:

Parameter		Type			Normal		Mixed Fiber	
Fiber	Common Port & Pump Port	Corning HI1060 Flex or OFS BF05635-02						
	Signal Port	Corning HI1060 Flex or OFS BF05635-02			Coming SMF-28			
Operating wavelength (nm)		980 and 1550						
Operating bandwidth (nm)		± 10/20						
Grade		U	P	A	U	P	A	
Insertion loss (dB)		< 0.05	< 0.15	< 0.25	< 0.1	< 0.2	< 0.3	
Isolation (dB)		> 20	> 20	> 18	> 20	> 20	> 18	
PDL (dB)		< 0.05	< 0.05	< 0.1	< 0.05	< 0.05	< 0.1	
Directivity (dB)		> 55						
Operating temperature (°C)		- 40 ~ +85						

*Other specifications can be made on customer request.

Package Information:

Configuration	1 × 2 or 2 × 2		
Fiber lead length	0.8 meter, others on request		
Fiber type	250 μm bare fiber	900 μm loose tube	900 μm/2mm/3mm loose tube
Dimensions (φ × L)	φ 3.0mm × 54mm	φ 3.0mm × 70mm	90mm × 14mm
	φ 2.4mm × 42mm	φ 3.0mm × 54mm	× 8.5mm

*Other package dimensions can be made on customer request.

Ordering Information:

WDM-X-XXX-XXX-X---X---XX/XXX--XX*XX

- Package : 3.0x54 etc.
- Connector : FC/UPC, FC/APC etc.
- Fiber Type : 0=SMF-28, 1=flexcore, 2=50/125μm, 3=62.5/125μm, 4=others
- Pigtail Type : 0=250μm, 1=900μm, 2=2mm, 3=3mm, 4=others
- Operating Wavelength : 131=1310nm, 155=1550nm, 1315=1310&1550nm etc.
- Port Number : 1x2, 2x2 etc.
- Grade : U=Ultra, P=Perfect, A=Grade A, X=On customer request