



## 980/1550nm Mixed Wavelength Division Multiplexer (WDM)



### Overview:

980/1550nm and 980/1590nm WDM couplers are widely used in EDFA. They combine the 980nm pump power and optical signal into the Er-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	980/1550			980/1590		
		Operating wavelength (nm)		980 and 1550			980 and 1590
Operating bandwidth (nm)		±10/20					
Grade		U	P	A	U	P	A
Insertion loss (dB)		<0.1	<0.2	<0.3	<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 或 2×2		
Fiber	Combine Port & Pump Port		Signal Port
	Corning HI 1080 Flex or OFS BF05685-02		Corning SMF-28
Fiber lead length	0.3 meter, others on request		
Fiber type	250 μm bare fiber	900 μm loose tube	900 μm/2mm/3mm loose tube
"	φ 8.0mm × 54mm	φ 8.0mm × 70mm	90mm × 14mm
	φ 2.4mm × 42mm	φ 8.0mm × 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 : 3.0×54 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 : 1×2, 2×2 etc.
- └─ Grade : P=Perfect, A=Grade A, X=On customer request