

Features

- Wide bandwidth
- Low insertion loss
- High channel isolation
- Exceptional reliability and stability

Applications

- Optical amplifiers
- CATV



Product Description

FWDM components use mature thin-film interference filter technology to separate or combine specific optical signals. With wide bandwidth, low insertion loss, high isolation, and low temperature dependent loss, they are ideal for use in optical amplifier and CATV applications.

Specifications

Item		Unit	Parameters			Note
Pass Port (C-P)	Central Wavelength λ_p	nm	1310	1550	1625	
	Wavelength Range	nm	1260~1360	1535~1565	1600~1650	
	Insertion Loss	dB	≤ 0.80			
	Flatness	dB	≤ 0.30			
	Isolation @ λ_R	dB	≥ 50			
Reflect Port (C-R)	Central Wavelength λ_R	nm	1480/1550/1625	1310/1480/1625	1310/1480/1550	
	Wavelength Range	nm	1460~1650	1260~1500&1580 ~1650	1260~1580	
	Insertion Loss	dB	≤ 0.40			
	Flatness	dB	≤ 0.25			
	Isolation @ λ_p	dB	≥ 15			
Directivity	dB	≥ 50				
Optical Return Loss	dB	≥ 50				
Polarization Dependent Loss	dB	≤ 0.1				
PMD	ps	≤ 0.1				
Thermal Stability	dB/°C	≤ 0.005				
Optical Power	mW	≤ 500				
Tensile Load	N	≥ 5				
Operating Temperature	°C	-5 to +70				
Storage Temperature	°C	-40 to +85				
Fiber type		SMF-28e				
Package dimension	mm	$\phi 5.5 \times 34$				

*. All the specifications are based on the devices without connector, and guaranteed over wavelength, polarization and temperature.

**.. Specifications are subject to change without notice.

Dimensions drawing (mm)



Ordering information (Example:FWDM-111111)

FWDM—		1			
WDM Type	Isolation @ λ_r	Fiber Option	Fiber Length	Connector Type	
1、1480(Reflect)/1550 (Pass)	1、30dB Isolation	1、250 μ m fiber	1、0.5+/-0.1 m	0. No connector	
2、1310(Reflect)/1550 (Pass)	2、High Isolation	2、900 μ m fiber	2、1.0+/-0.1 m	1. FC/UPC	
3、1510(Reflect)/1550 (Pass)		3、Others	3、Others	2. FC/APC	
4、980(Reflect)/1550 (Pass)				3. SC/UPC	
5、Others				4. SC/APC	
				5. LC/PC	
				6. MU/PC	
				7. Others	