

#### **Features**

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

#### **Applications**

- Optical amplifiers
- CATV

## 1310/1480/1550/1625FWM Component



#### **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 $\lambda_p$	nm	1310	1550	1625	
	Wavelength Range	nm	1260~1360	1535~1565	1600~1650	
	Insertion Loss	dB	≤0.80			
	Flatness	dB	≤0.30			
	Isolation @ \(\lambda_R\)	dB	≥50			
Reflect Port (C-R)	Central Wavelength $\lambda_R$	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 @ \(\lambda_{\pm}\)	dB	≥15			
Directivity		dB	≥50			
Optical Return Loss		dB	≥50			
Polarization Dependent Loss		dB	≤0.1			
PMD		ps	≤0.1			
Thermal Stability		dB/℃	≤0.005			
Optical Power		mW	≤500			
Tensile Load		N	≥5			
Operating Temperature		$^{\circ}$ C	-5 to +70			
Storage Temperature		$^{\circ}$	-40 to +85			
Fiber type			SMF-28e			
Package dimension		mm	φ5.5 x 34			

<sup>\*.</sup> All the specifications are based on the devices without connector, and guaranteed over wavelength, polarization and temperature.

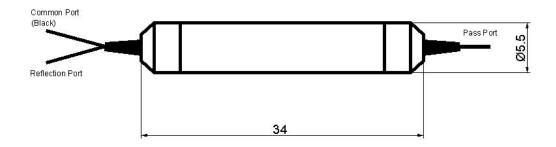
#### **Dimensions drawing (mm)**

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<sup>\*\*.</sup> Specifications are subject to change without notice.



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### **Ordering information (Example:FWDM-111111)**

FWDM-	1	P	T	P
WDM Type	Isolation @ \(\lambda_R\)	Fiber Option	Fiber Length	Connector Type
1、1480(Reflect)/1550 (Pass)	1、30dB Isolation	1、250μm fiber	1、0.5+/-0.1 m	0. No connector
2、1310(Reflect)/1550 (Pass)	2. High Isolation	2、900µm 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

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