

Features

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



Applications

- Optical amplifiers
- CATV

Product Description

Primanex 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, CATV, and FTTH applications.

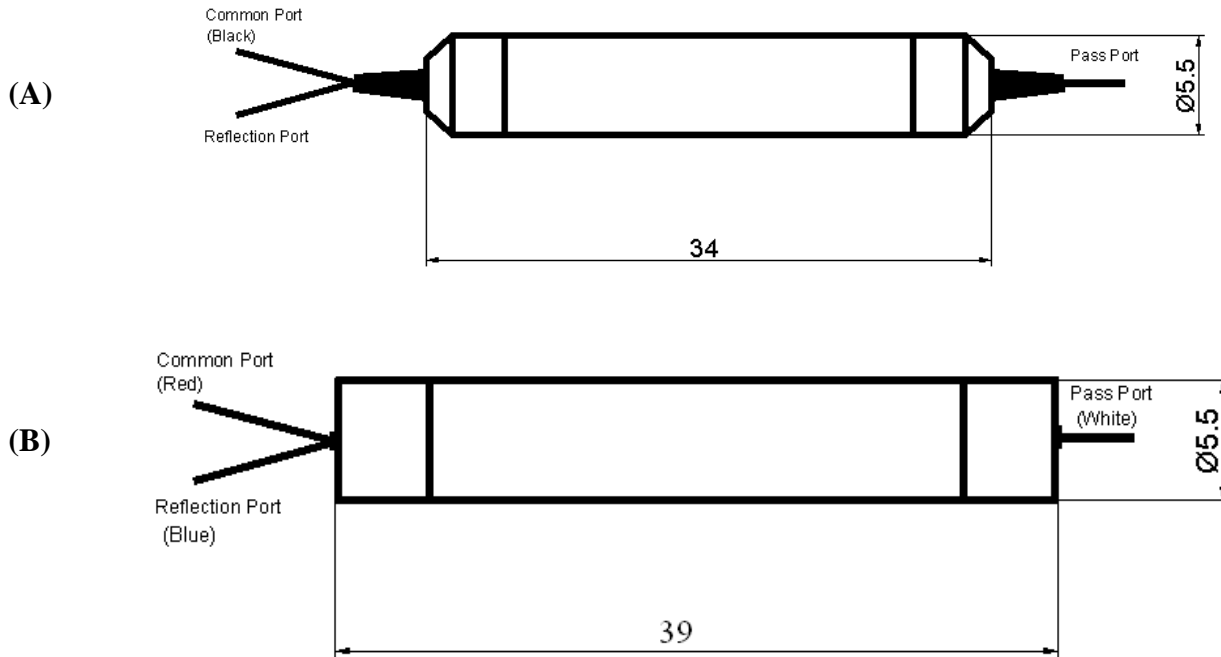
Specifications

Item	Unit	Parameters				Notes	
Pass Port (C-P)	Central Wavelength λ_p	nm	1310	1550	1310/1480	1510	
	Wavelength Range	nm	1260~1360	1500~1600	1260~1500	1500~1520	
	Insertion Loss	dB	≤ 0.60				
	Flatness	dB	≤ 0.30				
	Isolation @ λ_R	dB	≥ 30				
Reflect Port (C-R)	Central Wavelength λ_R	nm	1480/1550	980	1550	1550	
	Wavelength Range	nm	1380~1620	960~1000	1530~1620	1528~1566	
	Insertion Loss	dB	≤ 0.40				
	Flatness	dB	≤ 0.25				
	Isolation @ λ_p	dB	≥ 13				High isolation (26 dB) is optional
Directivity	dB	≥ 50					
Optical Return Loss	dB	≥ 50					
Polarization Dependent Loss	dB	≤ 0.1					
PMD	ps	≤ 0.1					
Thermal Stability	dB/ $^{\circ}$ C	≤ 0.005					
Optical Power	mW	≤ 500					
Tensile Load	N	≥ 5					
Operating Temperature	$^{\circ}$ C	-5 to + 70					
Storage Temperature	$^{\circ}$ C	-40 to + 85					
Fiber Type		SMF-28e+				Other fiber is optional	
Package Dimension	mm	$\Phi 5.5 \times 34$ (A)				250 μ m bare fiber	
	mm	$\Phi 5.5 \times 39$ (B)				900 μ m loose tube	

*. 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-111120)

FWDM - <input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WDM Type	Isolation @ λ_R	Fiber Type	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. 1480&1310(Reflect)/1310(Pass)				4. SC/APC	
6. 1550(Reflect)/1310&1480(Pass)				5. LC/PC	
7. 1550(Reflect)/1510(Pass)				6. MU/PC	
8. Others				7. Others	

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