



## Filter WDM (980/1064 nm, 980/1550 nm) (FWDM Series)

The Filter Wavelength Division Multiplexer is based on environmentally stable thin-film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental stability. High power handling capability can be achieved through unique pigtail processing and high quality AR coating. These components have been extensively used in EDFAs, Raman amplifiers, WDM networks and fiber optical instruments.

### Specifications

Parameter	Unit	Value	
Pass Band	Wavelength Range	nm	980 ± 10
	Max. Insertion Loss	dB	0.7
	Min. Isolation	dB	25
Reflection Band	Wavelength Range	nm	1060 ± 40
	Max. Insertion Loss	dB	0.6
	Min. Isolation	dB	12
Min. Return Loss	dB	50	
Max. Polarization Dependent Loss	dB	0.1	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type		HI 1060 fiber	
Package Type		FWDM STD	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

#### For Pulsed app,

AFR offers 980/1064 nm filter based WDM with End-cap, same package size, which can handle up to **10 kW** peak power for ns pulse. For full specification, please visit our website.

WDM

\*IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

### Ordering Information

#### FWDM-①①①①-②-③-④

①①①①: Wavelength	②: Connector Type	③: Fiber Jacket	④: Fiber Length
9806 - 980 Pass/1060 Reflect	1 - FC/UPC 2 - FC/APC 3 - SC/UPC	4 - SC/APC N - None S - Specify	B - 250 μm bare fiber L - 900 μm loose tube S - Specify

## PM FWDM (980/1064 nm, 980/1550 nm) (PMFWDM Series)



Parameter	Unit	Value	
Pass Band	Wavelength Range	nm	980 ± 10
	Typ. Insertion Loss	dB	0.5
	Max. Insertion Loss	dB	0.7
	Typ. Isolation	dB	30
	Min. Isolation	dB	25
Reflection Band	Wavelength Range	nm	1060 ± 40
	Typ. Insertion Loss	dB	0.4
	Max. Insertion Loss	dB	0.6
	Typ. Isolation	dB	15
	Min. Isolation	dB	12
Min. Return Loss	dB	50	
Min. Extinction Ratio	dB	20	
Max. Optical Power (Continuous Wave)	mW	300	
Fiber Type for Pass Port		PM 980 Panda fiber	
Fiber Type for Reflect and Common Ports		PM 980 Panda fiber	
Package Type		FWDM STD	

\*IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.