

# PRODUCT INFORMATION SHEET

## Filter Wavelength Division Multiplexer (FWDM Series)

The Filter Wavelength Division Multiplexer series are based on environmentally stable Thin Film Filters 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 amplifier, WDM networks and fiber optics instrumentation.

### ➤ Specifications

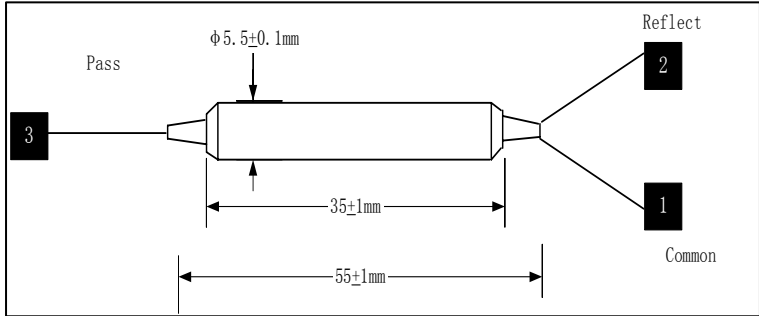
Parameters		Unit	Values			
Pass Band	Wavelength Range	nm	1270-1350(1530-1600)	1450-1490(1530-1580)	1500-1520(1530-1570)	950-1010(1500-1600)
	Typ. Insertion Loss	dB	0.4	0.4	0.5	0.5
	Max. Insertion Loss	dB	0.6	0.6	0.7	0.7
	Typ. Isolation	dB	35	30	35	35
	Min. Isolation	dB	30	25	30	30
Reflection Band	Wavelength Range	nm	1530-1600(1270-1350)	1530-1580(1450-1490)	1530-1570(1500-1520)	1500-1600(950-1010)
	Typ. Insertion Loss	dB	0.3			
	Max. Insertion Loss	dB	0.5			
	Typ. Isolation	dB	15			
	Min. Isolation	dB	12			
Min. Return Loss	dB	≥50				
Max. PDL	dB	0.1				
Typ. PDL	dB	0.05				
Thermal Stability	dB/°C	≤0.005				
Max. Optical Power	mW	300				
Max. Tensile Load	N	5				
Fiber Type		SMF-28 Fiber		HI 1060 Fiber for pump Channel (Two ports)		
Operating Temperature	°C	-5 to +70				
Storage Temperature	°C	-40 to +85				

\*Above specifications are for device without connector.

\*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

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## Package Dimensions



## Ordering Information

FWDM-①-②-③-④

### ① Wavelength

3155 - 1310 Pass/1550 Reflect  
5531 - 1310 Reflect/1550 Pass  
4855 - 1480 Pass/1550 Reflect  
5548 - 1480 Reflect/1550 Pass  
5155 - 1510 Pass/1550 Reflect  
5551 - 1510 Reflect/1550 Pass  
9855 - 980 Pass / 1550 Reflect  
5598 - 980 Reflect / 1550 Pass

### ② Connector Type

1 -FC/UPC  
2 -FC/APC  
3 -SC/UPC  
4 - SC/APC  
5 - LC/UPC  
6 - ST/UPC  
N – None  
S – Specify

### ③ Fiber Type

B - 250um bare  
L-900um loose tube  
S – Specify

### ④ Fiber Length

1 - 1.0 m  
S - Specify