

Filter Wavelength Division Multiplexer (FWDM Series)

Rev 11

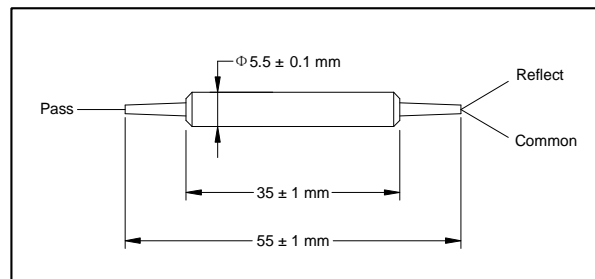
The Filter Wavelength Division Multiplexer is based on environmentally stable thin film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental 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	1270 - 1350 (1530 - 1600)	1450 - 1490 (1530 - 1580)	1500 - 1520 (1530 - 1570)
	Typ. Insertion Loss	dB	0.4	0.4	0.5
	Max. Insertion Loss	dB	0.6	0.6	0.7
	Typ. Isolation	dB	35	30	35
	Min. Isolation	dB	30	25	30
Reflection Band	Wavelength Range	nm	1530 - 1600 (1270 - 1350)	1530 - 1580 (1450 - 1490)	1530 - 1570 (1500 - 1520)
	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. Polarization Dependent Loss	dB		0.1		
Typ. Polarization Dependent Loss	dB		0.05		
Thermal Stability	dB/°C		0.005		
Max. Optical Power	mW		300		
Max. Tensile Load	N		5		
Fiber Type			SMF-28 fiber		
Operating Temperature	°C		-5 to +70		
Storage Temperature	°C		-40 to +85		

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

FWDM-①①①①-②-③-④

①①①①: 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
 SSSS - Specify

②: Connector Type

1 - FC/UPC
 2 - FC/APC
 3 - SC/UPC
 4 - SC/APC
 N - None
 S - Specify

③: Fiber Jacket

B - 250 μm bare fiber
 L - 900 μm loose tube
 S - Specify

④: Fiber Length

1 - 1.0 m
 S - Specify