Advanced Fiber Resources (HK), Ltd.

Filter Wavelength Division Multiplexer (FWDM Series)

Rev 11

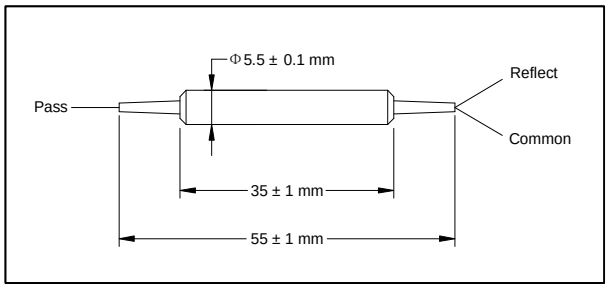
The Filter Wavelength Division Multiplexer is based on environmentally stable thin film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental 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/℃		0.005	
Max. Optical Power		mW		300	
Max. Tensile Load		N		5	
Fiber Type				SMF-28 fiber	
Operating Temperature		℃		-5 to +70	
Storage Temperature		℃		-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