



Filter Wavelength Division Multiplexer (FWDM Series)

Rev 10

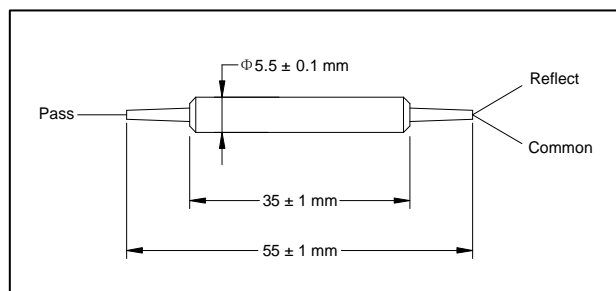
The Filter Wavelength Division Multiplexer series is based on environmentally stable thin-film-filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental 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
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-①①①①-②-③-④-⑤

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