



Multimode Filter Wavelength Division Multiplexer (MMFWDM Series)

Rev 11B

Description

The Multimode Filter Wavelength Division Multiplexer series is based on environmentally stable thin film filter technology. These components combine or separate light at different wavelengths in a wide wavelength range. They offer very low insertion loss, 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 multi-mode fiber communication, CATV and testing instrumentation.

Key Features

- Low Insertion Loss
- High Isolation

Applications

- Fiber Optic Instruments

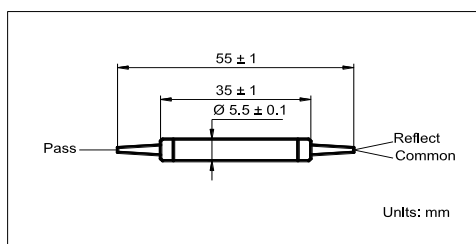
Specifications

Parameter		Unit	Value			
Pass Band	Wavelength Range	nm	830 - 870	(1290 - 1330)	1270 - 1350	(1530 - 1600)
	Max. Insertion Loss	dB	0.5			
	Min. Isolation	dB	30			
Reflection Band	Wavelength Range	nm	1290 - 1330	(830 - 870)	1530 - 1600	(1270 - 1350)
	Max. Insertion Loss	dB	0.5			
	Min. Isolation	dB	12			
Min. Directivity		dB	35			
Min. Return Loss		dB	35			
Max. Temperature Dependent Loss		dB	0.15			
Max. Optical Power (Continuous Wave)		mW	300			
Max. Tensile Load		N	5			
Fiber Type		-	Multimode Fiber 62.5/125, 50/125, 105/125 μ m			
Operating Temperature		$^{\circ}$ C	- 5 to + 70			
Storage Temperature		$^{\circ}$ C	- 40 to + 85			

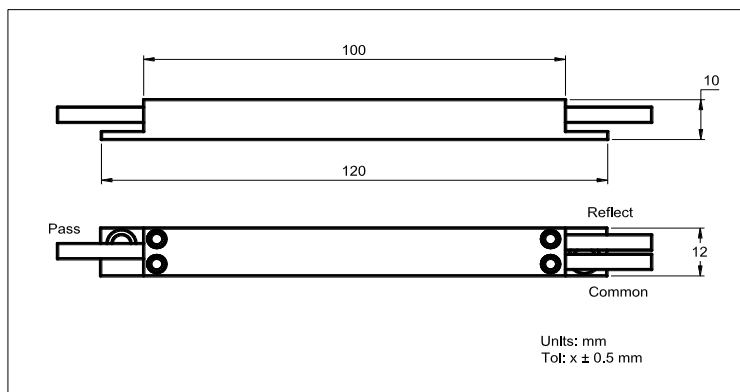
¹IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

²Above specifications are measured at CPR higher than 15 dB.

Package Dimensions



for 250 μ m bare fiber & 900 μ m loose tube



for 2 mm cable & 3 mm cable

Ordering Information

MMFWDM-①①①①-②-③-④-⑤

①①①①: Wavelength

3155 - 1310 Pass/1550 Reflect

5531 - 1550 Pass/1310 Reflect

8531 - 850 Pass/1310 Reflect

3185 - 1310 Pass/850 Reflect

②: Fiber Core

1 - 105 μm

2 - 62.5 μm

3 - 50 μm

S - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

2 - 2 mm Cable

3 - 3 mm Cable

S - Specify

⑤: Fiber Length

1 - 1.0 m

S - Specify