



## Multimode Filter Wavelength Division Multiplexer (MMFWDM Series)

Rev 10

The Multimode 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, 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.

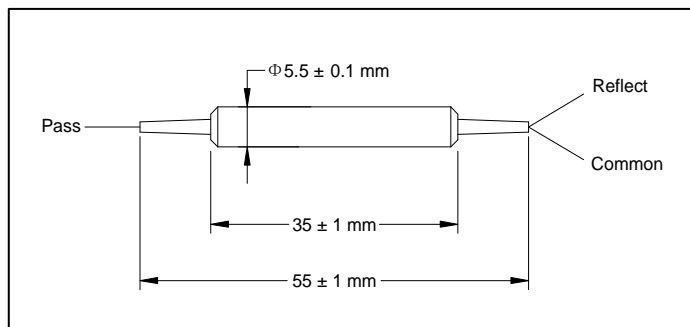
### Specifications

Parameter	Unit	Value
Pass Band	Wavelength Range	nm 830 - 870 (1290 - 1330) 1270 - 1350 (1530 - 1600)
	Typ. Insertion Loss	dB 0.3
	Max. Insertion Loss	dB 0.5
	Typ. Isolation	dB 35
	Min. Isolation	dB 30
Reflection Band	Wavelength Range	nm 1290 - 1330 (830 - 870) 1530 - 1600 (1270 - 1350)
	Typ. Insertion Loss	dB 0.3
	Max. Insertion Loss	dB 0.5
	Typ. Isolation	dB 15
	Min. Isolation	dB 12
Directivity	dB	40
Min. Return Loss	dB	40
Max. Temperature Dependent Loss	dB	0.15
Max. Optical Power (Continuous Wave)	mW	300
Package Dimensions	mm	bare fiber & loose tube, $\Phi 5.5 \times 55$ 3 mm cable, 12 (W) $\times$ 10 (H) $\times$ 120 (L)
Max. Tensile Load	N	5
Fiber Type		Multimode fiber 62.5/125, 50/125, 105/125 $\mu\text{m}$
Operating Temperature	$^{\circ}\text{C}$	-5 to +70
Storage Temperature	$^{\circ}\text{C}$	-40 to +85

\*IL is 0.3 dB higher for each connector added.

\*Above specifications are measured at low order modes.

### Package Dimensions



### Ordering Information

MMFWDM-①①①①-②-③-④-⑤

①①①①: Wavelength	②: Fiber Core	③: Connector Type	④: Fiber Type	⑤: Fiber Length
3155 - 1310 Pass/1550 Reflect	1 - 105 $\mu\text{m}$	1 - FC/UPC	B - 250 $\mu\text{m}$ bare fiber	1 - 1.0 m
5531 - 1550 Pass/1310 Reflect	2 - 62.5 $\mu\text{m}$	2 - FC/APC	L - 900 $\mu\text{m}$ loose tube	S - Specify
8531 - 850 Pass/1310 Reflect	3 - 50 $\mu\text{m}$	3 - SC/UPC	C - 3 mm cable	
3185 - 850 Reflect/1310 Pass		4 - SC/APC	S - Specify	
		N - None		
		S - Specify		