

1550/2000nm PM WDM Filter

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters	Unit	Standard	High Isolation
Pass Channel Wavelength Range λ_1	nm	1880 $\pm$ 10, 1900 $\pm$ 10, 1950 $\pm$ 20, 2000 $\pm$ 30, 2050 $\pm$ 20, 2090 $\pm$ 10	
Reflective Channel Wavelength Range λ_2	nm	1530 $\pm$ 20, 1550 $\pm$ 20, 1570 $\pm$ 20, 1590 $\pm$ 20, 1625 $\pm$ 10	
Insertion Loss	Pass Channel@ λ_1	dB	≤ 1.4
	Reflective Channel@ λ_2	dB	≤ 1.6
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ λ_2	dB	≥ 25
	Reflective Channel@ λ_1	dB	≥ 45
Optical Return Loss		dB	≥ 45
Directivity		dB	≥ 50
Extinction Ratio	Standard	dB	≥ 20
	High ER Type	dB	≥ 22
Fiber Tensile Load		N	5
Fiber Type	Common & Pass Port	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)
	Ref Port (1.5um)	-	Same Fiber, Corr. SM Fiber or PM1550 Fiber
Max. Optical Power (CW)		mW	300
Operating Temperature		°C	0~50
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L 35$
	Metal Box	mm	$L 120 \times W 12 \times H 10$

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 - High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

FPWM-NN	NN	-	C	(C)	(C)	(C)	-(C)	C	C	NN	-	CC/CCC
Ref Wavelength	Pass Wavelength	Ref.1 Fiber	Ref.2 Fiber	Type	Isolation	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
53-1530nm	20-2000nm	Y= Same Fiber	Y= Same Fiber	H=High ER	I= High Iso	M= Metal Box	2= PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector		
15-1550nm	19-1950nm	S= Corr. SM Fiber	S= Corr. SM Fiber	Blank for	Blank for	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
57-1570nm	25-2050nm	P= PM1550 Fiber	P= PM1550 Fiber	Standard	Standard		O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
59-1590nm	90=1900nm		Blank for Y Type				R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		

