

1900~1950/2050~2110nm High Power PM WDM Filter



FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

SPECIFICATIONS

Parameters	Unit	Standard	High ER Type
Pass Channel Wavelength Range λ_1	nm	2050 \pm 10, 2070 \pm 10, 2090 \pm 10, 2110 \pm 10	
Reflective Channel Wavelength Range λ_2	nm	1900 \pm 10, 1930 \pm 20, 1950 \pm 20	
Insertion Loss	Pass Channel@ λ_1	dB	\leq 1.5
	Reflective Channel@ λ_2	dB	\leq 1.3
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation	Pass Channel@ λ_2	dB	\geq 25
	Reflective Channel@ λ_1	dB	\geq 12
Optical Return Loss	dB	\geq 45	
Directivity	dB	\geq 50	
Extinction Ratio	dB	\geq 18	\geq 20
Fiber Tensile Load	N	5	
Fiber Type	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/400um PMDC Fiber (R4)	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	ϕ 5.5x ^L 35 (\leq 5W); ϕ 6.0x ^L 50 (5~10W)
	Metal Box	mm	^L 120x ^W 12x ^H 10 (\leq 10W)

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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.

5. High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

FPWM-NN	NN	(C)	(C)	-HP NN	(C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
90-1900nm	25-2050nm	X-X Type	H-High ER	1- 1W	M-Metal Box	2- PM1550 Fiber	B- Bare fiber	05-0.5m	N-Without Connector
93-1930nm	27-2070nm	Blank for Y Type	Blank for Standard	5- 5W	Blank for SST	V- PM1950 Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
19-1950nm	29-2090nm			7-7W		O-10/130 PMDC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
	21-2110nm			10-10W		R4-25/250 PMDC Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector