



## 780~850/2000nm High Power PM WDM Filter

### FEATURES

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

### APPLICATIONS

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

### SPECIFICATIONS

Parameters	Unit	Standard	High ER Type
Pass Channel Wavelength Range $\lambda_1$	nm	1900±10, 1950±20, 2000±30, 2050±20, 2070±10	
Reflective Channel Wavelength Range $\lambda_2$	nm	780±10, 793±10, 808±10, 830±10, 850±10	
Insertion Loss over $\lambda_1$ @ Pass Channel	dB	≤1.6	≤1.8
Insertion Loss over $\lambda_2$ @ Reflective Channel	dB	≤1.5	
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation over $\lambda_1$ @ Reflective Channel	dB	≥12	
Isolation over $\lambda_2$ @ Pass Channel	dB	≥25	
Optical Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	≥20
Fiber Type	Common & Signal	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)
	Pump (780-850nm)	-	Same Fiber or Corr. SM Fiber, PM850 Fiber, PM780HP Fiber or HI780 Fiber
Polarization Alignment	-	Slow Axis	
Fiber Tensile Load	N	5	
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	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~8W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.7dB 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.
  6. 780~850nm light will transmit as low order modes in common port signal fiber.

### ORDERING INFORMATION (PN)

FPWM-NN	NN	- C	(C)	C	-HP NN	-(C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump. Fiber	Ref. Fiber2	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
79-793nm	90-1900nm	Y= Same Fiber	X= Same Fiber	H= High ER	1= 1W	M= Metal Box	2= PM1550 Fiber	B= Bare Fiber	05=0.5m	N= Without Connector
83-830nm	25-2050nm	S= Corr. SM Fiber	S= Corr. SM Fiber	Blank for	2=2W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
19-1950nm	78-780nm	P=PM850 Fiber	P=PM850 Fiber	Standard	5=5W	or >8W	O=10/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
20-2000nm	85-850nm	7=PM780HP Fiber	Blank for Y Type		10=10W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector
				H=HI780 Fiber						