

## 1550/2000nm 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
- Metro Networks

### 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	1530±20, 1550±20, 1570±20, 1590±20	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	≤1.4	≤1.6
	Reflective Channel@ $\lambda_2$	dB	≤1.2	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ $\lambda_2$	dB	≥25	
	Reflective Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss		dB	≥45	
Directivity		dB	≥50	
Extinction Ratio		dB	≥18	≥20
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 (1550nm)	-	Same Fiber or Corresponding SM Fiber	
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:**
- 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.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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) -HP	NN	- (C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	1550nm Fiber	1550nm Fiber2	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
53=1530nm	20=2000nm	P= Same Fiber	P= Same Fiber	H=High ER	1- 1W	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	5- 5W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57=1570nm	25=2050nm		Blank for Y Type	Standard	7-7W	or >8W	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm	90=1900nm				10=10W		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector