

## 1550/2000nm PM WDM Filter for Pulse Power



### 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	≤1.4	
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, Corr. SM Fiber or PM1550 Fiber	
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20	
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)12x(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 0.3dB 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)	(C) -H	NN	P NN	-(C)	C	C	NN	-CC/CC
Ref Wavelength	Pass Wavelength	Ref.1 Fiber	Ref.2 Fiber	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
53=1530nm	20=2000nm	Y= Same Fiber	Y= Same Fiber	H=High ER	03=300mW	01= 100W	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	1= 1W	1=1kW	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	5= 5W	5=5kW	or >8W	0=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm	90=1900nm		Blank for Y Type		10=10W	10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector