

## 980/1310/1550/1590nm 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	1310 $\pm$ 20, 1530-1580, 1570-1610	
Reflective Channel Wavelength Range $\lambda_2$		nm	965-1000	
Insertion Loss over $\lambda_1$ @ Pass Channel		dB	$\leq 1.0$	$\leq 1.2$
Insertion Loss over $\lambda_2$ @ Reflective Channel		dB	$\leq 0.8$	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation over $\lambda_1$ @ Reflective Channel		dB	$\geq 12$	
Isolation over $\lambda_2$ @ Pass Channel		dB	$\geq 30$	
Optical Return Loss		dB	$\geq 45$	
Extinction Ratio		dB	$\geq 18$	$\geq 20$
Fiber Type	Signal Port	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O), 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q), 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
	Common Port		Same Fiber or PM980 Fiber	
	Pump Port		Same Fiber, PM980 Fiber or HI1060 Fiber	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Max. Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 35$ ( $\leq 5W$ ); $(\varnothing)6.0 \times 48$ (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (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 0.5dB 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-98NN-	C	(C)	(C)	(C) -HP NN	-(C)	C	C	NN	- CC/CCC	
Signal Wavelength	Pump Fiber	Pump Fiber2	Comm Fiber	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
15=1550nm	Y=Same Fiber	X=Same Fiber	M=PM980 Fiber	H= High ER	1= 1W	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
59=1590nm	P=PM980 Fiber	P=PM980 Fiber	Blank for Same Fiber	Blank for	5= 5W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
13=1310nm	S=HI1060 Fiber	S=HI1060 Fiber		Standard	10=10W	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
		Blank for Y Type			20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

