

## 780~850/2030~2070nm WDM/Isolator PM Hybrid 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	Single Stage	Dual Stage
Signal Wavelength Range $\lambda_1$		nm	2030 $\pm$ 20, 2050 $\pm$ 20, 2070 $\pm$ 10	
Pump Wavelength Range $\lambda_2$		nm	780 $\pm$ 10, 793 $\pm$ 10, 808 $\pm$ 10, 830 $\pm$ 10, 850 $\pm$ 10	
Insertion Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.6	$\leq$ 2.0
	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.3	
Signal Isolation (Signal Channel@ $\lambda_1$ )		dB	$\geq$ 10	$\geq$ 25
Signal/Pump Wavelength Isolation		dB	$\geq$ 25/12	
Optical Return Loss		dB	$\geq$ 45	
Extinction Ratio		dB	$\geq$ 18	
Work Mode	S Type	-	Can only work in Slow Axis	
	F Type	-	Can Work Both in Slow Axis and Fast Axis	
Fiber Type	Common & Signal Port	-	PM1550 Panda Fiber or PM1950 Fiber (V)	
			10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
	Pump Port		Same Fiber or Corr. SM Fiber, PM850 Fiber, PM780HP Fiber (7) or HI780 Fiber	
Fiber Tensile Load		N	5	
Max. Optical Power (CW)		mW	300	
Operating Temperature		$^{\circ}$ C	0~50	
Storage Temperature		$^{\circ}$ C	-40~85	
Package	Stainless Steel Tube (SST)	mm	$(\varnothing)$ 5.5x35	
Dimension	Metal Box	mm	(L)120x(W)12x(H)10	

- 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. 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.

### ORDERING INFORMATION (PN)

FPHW-NN	NN	- C	C	C	C	-(C)	C	C	NN	-CC/CCC
Pump WL	Signal WL	Stage	Pump Type	Work Mode	Pump Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
78-780nm	23-2030nm	S=Single Stage	F= Forward	S= S Type	Y=Same Fiber	M=Metal Box	2= PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
79-793nm	25-2050nm	D=Dual Stage	B=Backward	F= F Type	P=PM850 Fiber	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
81-808nm	27-2070nm				H=HI780 Fiber		O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
85-850nm					S=Corr. SM Fiber		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector