

## 780~850/1900~1970nm 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	1900 $\pm$ 10, 1930 $\pm$ 20, 1950 $\pm$ 20, 1970 $\pm$ 20	
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
	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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - 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	90-1900nm	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	93-1930nm	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	19-1950nm				H=HI780 Fiber		O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
85-850nm	97-1970nm				S=Corr. SM Fiber		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector