

## 780~850/2030~2070nm WDM/Iso/Tap PM Hybrid Filter

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication 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	
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.8	$\leq$ 2.2
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.3	
Signal Tap Ratio		%	1 $\pm$ 0.5, 2 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 40, 50	
Signal Isolation (Signal Channel@ $\lambda_1$ , 23°C)		dB	$\geq$ 10	$\geq$ 25
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	$\geq$ 25	
	Pump Channel@ $\lambda_1$	dB	$\geq$ 12	
Optical Return Loss		dB	$\geq$ 45	
Extinction Ratio		dB	$\geq$ 18	
Pump Type	S Type	-	Forward Pump, Only Slow Axis Working	
	F Type	-	Forward Pump, Both Axis Working	
	B Type	-	Backward Pump, Only Slow Axis Working	
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	
Tap Port	-	Same Fiber or Corr. SM Fiber		
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		mW	300	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$(\varnothing)$ 5.5x40	
	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)

FPHT-NN	NN	-	C	C	NN	-	C	C	-(C)	C	C	NN	-	CC/CCC
Pump WL	Signal WL	Stage	Pump Type	Tap Ratio	Pump Fiber	Tap Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type			
78=780nm	23=2030nm	S=Single Stage	S=S Type	01= 1%	Y=Same Fiber	P=Same Fiber	M=Metal Box	2= PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector			
79=793nm	25=2050nm	D=Dual Stage	F= F Type	05=5%	P=PM850 Fiber	S=Corr. SM Fiber	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector			
81=808nm	27=2070nm		B=B Type	10=10%	H=HI780 Fiber			O=10/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector			
85=850nm				50=50%	S=Corr. SM Fiber			R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector			

