

1500~1600/1900~1970nm High Power WDM/Isolator PM Hybrid Filter

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Signal Wavelength Range λ_1	nm	1900 \pm 10, 1930 \pm 20, 1950 \pm 20, 1970 \pm 20		
Pump Wavelength Range λ_2	nm	1530 \pm 20, 1550 \pm 20, 1570 \pm 20, 1590 \pm 20		
Insertion Loss	Signal Channel@ λ_1	dB	\leq 1.6	\leq 2.0
	Pump Channel@ λ_2	dB	\leq 1.0	
Signal Isolation (Signal Channel@ λ_1)	dB	\geq 16	\geq 30	\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)	
	Pump Port	-	10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5		
Max. Optical Power (CW)	W	1, 2		3, 5, 10
Operating Temperature	$^{\circ}$ C	0~50		
Storage Temperature	$^{\circ}$ C	-20~75		
Package Dimension	Stainless Steel Tube (SST)	mm	\varnothing 5.5xL35	
	Metal Box	mm	L120x ^W 12x ^H 10	

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.

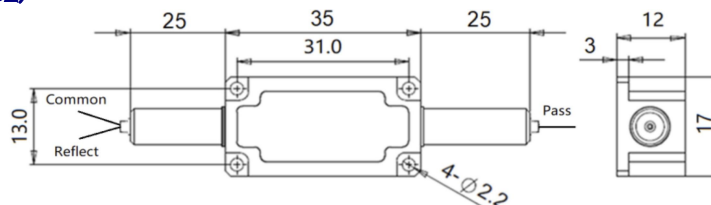
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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. Package size may be different for different fiber type and optical power.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

FPHW-NN	NN	- C	C	C	C	-HP NN	-(C)	C	C	NN	- CC/CCC
Pump WL	Signal WL	Stage	Pump Type	Work Mode	Pump Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
53=1530nm	90=1900nm	S=Single Stage	F= Forward	S= S Type	Y=Same Fiber	1= 1W	M= Metal Box	2= PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
15=1550nm	93=1930nm	D=Dual Stage	B=Backward	F= F Type	S=Corr. SM Fiber	3=3W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57=1570nm	19=1950nm	H=H Stage				5=5W	or >2W	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm	97=1970nm					10= 10W		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector