

# 1500~1600/2000nm WDM/Isolator PM Hybrid Filter for Pulse

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

## APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks

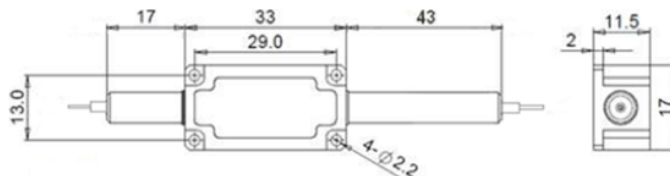


## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Signal Wavelength Range $\lambda_1$	nm	2000+/-20		
Pump Wavelength Range $\lambda_2$	nm	1530±20, 1550±20, 1570±20, 1590±20		
Insertion Loss	Signal Channel@ $\lambda_1$	dB	≤1.6	≤2.0
	Pump Channel@ $\lambda_2$	dB	≤1.0	
Signal Isolation (Signal Channel@ $\lambda_1$ )	dB	≥16	≥35	≥25
Signal/Pump Wavelength Isolation	dB	≥25/12		
Optical Return Loss	dB	≥45		
Extinction Ratio	dB	≥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. Average Optical Power	W	0.3, 0.5, 1, 2		3, 5, 10
Max. Peak Power for pulse	kW	0.1, 1, 2, 5, 10, 15, 20		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package	Stainless Steel Tube (SST)	mm	(∅)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 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.

## DIMENSION DRAWING (H STAGE)



## ORDERING INFORMATION (PN)

<b>FPHW</b>	<b>NN</b>	<b>-</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>-H</b>	<b>NN</b>	<b>P</b>	<b>NN</b>	<b>-(C)</b>	<b>C</b>	<b>C</b>	<b>NN</b>	<b>-CC/CCC</b>
<i>Pump WL</i>	<i>Signal WL</i>	<i>Stage</i>	<i>Pump Type</i>	<i>Work Mode</i>	<i>Pump Fiber</i>	<i>Average Power</i>	<i>Peak Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>			
53-1530nm	20-2000nm	S=Single Stage	F=Forward	S=S Type	Y=Same Fiber	03-300mW	01-100W	M=Metal Box	2= PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector			
15-1550nm		D=Dual Stage	B=Backward	F=F Type	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector			
57-1570nm		H=H Stage				5=5W	10= 10kW	or >2W	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector			
59-1590nm						10= 10W	20=20kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector			