

# 1480/1550/1590nm WDM/Iso/Tap PM Hybrid Filter for Pulse Power

## FEATURES

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

## APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

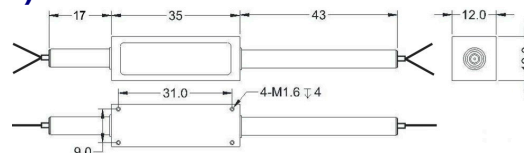


## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Signal Wavelength Range $\lambda_1$	nm	1530-1570 (C-Band), 1570-1610 (L-Band)		
Pump Wavelength Range $\lambda_2$	nm	1450-1490		
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq 1.1$	$\leq 1.5$
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq 0.8$	
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	$\geq 28$	$\geq 25$
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	$\geq 25$	
	Pump Channel@ $\lambda_1$	dB	$\geq 12$	
Optical Return Loss		dB	$\geq 45$	
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, 10/125um PMDC Fiber (O),	
		-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)	
		-	25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
	Pump Port	-	Same Fiber, Corr. SM Fiber or PM1310 Fiber	
Tap Port	-	Same Fiber or Corresponding SM Fiber		
Fiber Tensile Load		N	5	
Maximum Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10	15, 20
Max. Peak Power for Pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 40 (\leq 5W)$ ; $(\varnothing)6.0 \times 48$	
	Metal Box	mm	$(L)120 \times (W)12 \times (H)10$	

- 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.

## PACKAGE DIMENSION (H STAGE)



## ORDERING INFORMATION (PN)

FPHT-14(C)C C - NN C C -H NN P NN -(C) C C NN - CC/CCC

Signal WL	Stage	Pump Type	Tap Ratio	Pump Fiber	Tap Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
L-L Band	S=Single Stage	S=S Type	01=1%	P=PM1310 Fiber	P=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
Blank for	D=Dual Stage	F= F Type	05=5%	S=Corr. SM Fiber	S=Corr.	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
C Band	H=H Stage	B=B Type	10=10%	Y=Same Fiber	SM Fiber	10=10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			50=50%			20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/APC=SC/APC Connector