

# 1550nm PM BP Filter/Tap Hybrid for Pulse Power (<7nm BW)

## 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	Value
Center Wavelength	nm	1550
Min. Pass Band Width @ 0.5dB	nm	0.3, 0.7, 2.0, 3.0, 4.0, 5.0
Excess Loss	dB	≤1.6
Stop Band @25dB	0.3nm Bandwidth	1520~1549 & 1551~1610
	0.7nm Bandwidth	1520~1548 & 1552~1610
	2nm Bandwidth	1520~1547 & 1553~1610
	3nm Bandwidth	1520~1546 & 1554~1610
	4nm Bandwidth	1520~1545 & 1555~1610
	5nm Bandwidth	1520~1544 & 1556~1610
Tap Ratio	%	1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%
Tap Position	F Type (Forward)	Tap is before Bandpass Filter, Y Type (3-port)
	B Type (Backward)	Tap is after Bandpass Filter, Y Type (3-port)
	X Type	Tap is after Bandpass Filter, 4-port, (Blocked Wavelength Guide Out)
Fiber Type at Tap Port or 4 <sup>th</sup> Port	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber
Optical Return Loss	dB	≥50
Extinction Ratio	dB	≥18
Fiber Type	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O)
	-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)
	-	25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
Fiber Tensile Load	N	5
Max. 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	0~70
Storage Temperature	°C	-40~85
Package	Stainless Steel Tube (SST)	(Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~10W)
Dimension	Metal Box	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)

- 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. Backward type can only work in slow axis and fast axis is blocked. Suggest to use X type if blocked power is >1W.

## ORDERING INFORMATION (PN)

FPHB-1550-NN NN(C) - C (C) - H NN P NN -(C) C C NN -CC/CCC

Bandwidth	Tap Ratio	Position	Tap Port	Fiber	4th Port	Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	01=1%	F=F Type	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector		
20=2nm	05=5%	X=X Type	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
30=3nm	10=10%	Blank for B Type	5=50/125um Fiber	5=50/125um Fiber	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
50=5nm	50=50%		Blank for F&B Type	10=10W	10=10kW			G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		

