

# 1553nm High Power PM BP Filter/Tap Hybrid

## FEATURES

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

## APPLICATIONS

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



## SPECIFICATIONS

Parameters	Unit	Value
Center Wavelength	nm	1553
Min. Pass Band Width @ 0.5dB	nm	5.0
Excess Loss	dB	≤1.8
Stop Band @25dB	nm	1500~1548 & 1558-1610
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. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package	Stainless Steel Tube (SST)	mm (Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~10W)
Dimension	Metal Box	mm (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-1553-NN NN (C) - C (C) -HP NN - (C) C C NN - CC/CCC**

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