

1550nm PM BP Filter/Tap Hybrid for Pulse Power ($\geq 7\text{nm BW}$)

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	7.0, 10, 15, 20	
Excess Loss	dB	≤ 1.8	
Stop Band @25dB	7nm Bandwidth	1520~1543 & 1557~1610	
	10nm Bandwidth	1520~1540 & 1560~1610	
	15nm Bandwidth	1500~1537 & 1563~1610	
	20nm Bandwidth	1500~1533 & 1567~1610	
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 th 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	$^{\circ}\text{C}$	0~50	
Storage Temperature	$^{\circ}\text{C}$	-40~85	
Package	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x40 ($\leq 5\text{W}$); (\varnothing)6.0x48 (5~10W)
Dimension	Metal Box	mm	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10\text{W}$)

- 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.
 - 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
70=7nm	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
100=10nm	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
150=15nm	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
200=20nm	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