

## 1031nm High Power PM BP Filter/Tap Hybrid

### FEATURES

- ▣ High Isolation
- ▣ Low Insertion Loss
- ▣ High Reliability and Stability
- ▣ Various Bandwidth
- ▣ High Optical Power

### APPLICATIONS

- ▣ Broadband Systems
- ▣ Optical Amplifying Systems
- ▣ Telecommunication Networks
- ▣ Laser Systems
- ▣ Research Labs



### SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	1031	
Min. Pass Band Width @ 0.5dB	nm	8.0	
Excess Loss	dB	≤1.6	
Stop Wavelength (ASE)	nm	960~1021&1041~1100	
Stop Wavelength (ASE) Isolation	dB	Standard: ≥25; High Isolation ≥45	
Tap Ratio	%	1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%	
Tap Position	F Type	-	Tap is before Bandpass Filter, Y Type (3-port), Both axis working
	S Type	-	Tap is before Bandpass Filter, Y Type (3-port), Only Slow axis working
	B Type	-	Tap is after Bandpass Filter, Y Type (3-port), Only slow axis working
	X Type	-	Tap is after Bandpass Filter, 4-port, Only Slow axis working (Blocked Wavelength Guide Out)
Optical Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	
Fiber Type	Input&Output	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
	Tap Port or 4 <sup>th</sup> Port	-	Same Fiber, Corr. SM Fiber or MM Fiber
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20,30,40,50,60	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	∅5.5xL40 (≤5W); ∅6.0xL50 (5~10W)
Dimension	Metal Box	mm	L120xW12xH10 (≤10W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB 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. Suggest to use X type if blocked power is >1W.
  6. Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

**FPHB-1031-NN(C) NN (C) - C (C) - HP NN - (C) C C NN - CC/CCC**

Bandwidth	ASE Iso	Tap Ratio	Position	Tap Port Fiber	4th Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
80-8nm	I-High	01-1%	F=F Type	Y=Same Fiber	Y=Same Fiber	1-1W	M=Metal Box	2-PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	Isolation	05=5%	S=S Type	S=Corr. SM Fiber	S=Corr. SM Fiber	5-5W	Blank for SST	E-PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	Blank for	10=10%	X=X Type	S=50/125um Fiber	S=50/125um Fiber	10-10W	or >10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	Standard	50=50%	Blank for B Type		Blank for F/S/B Type	20=20mW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector