

## 1053nm PM BP Filter/Tap Hybrid for Pulse Power

### 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	1053	
Min. Pass Band Width @ 0.5dB	nm	1.0, 2.0, 4.0	
Excess Loss	dB	≤1.6	
Stop wavelength (ASE)	1nm Bandwidth	nm	1000~1051&1055~1100
	2nm Bandwidth	nm	1000~1049&1057~1100
	4nm Bandwidth	nm	1000~1047&1059~1100
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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
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	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 40 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
Dimension	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤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-1053-NN(C)NN(C) - C (C) -HNN P NN -(C) C C NN -CC/CCC**

Bandwidth	ASE Iso	Tap Ratio	Position	Tap Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
10=1nm	I=High	01=1%	F=F Type	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
20=2nm	Isolation	05=5%	S=S Type	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
40=4nm	Blank for	10=10%	X=X Type	5=50/125um Fiber	5=50/125um Fiber	5= 5W	5= 5kW	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	10=10W	10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

