

# 1030nm High Power PM Bandpass Filter/Isolator Hybrid for Pulse Power

## FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth

## APPLICATIONS

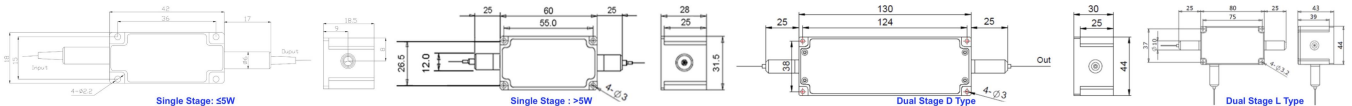
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1030	
Min. Pass Band Width @ 0.5dB	nm	1.3, 2.0, 4.0, 6.0, 9.0, 10, 12, 20	
Stop Wavelength (ASE)	1.3nm Bandwidth	nm	1000~1028&1032~1100
	2nm Bandwidth	nm	1000~1027&1033~1100
	4nm Bandwidth	nm	1000~1024&1034~1100
	6nm Bandwidth	nm	1000~1024&1036~1100
	9nm Bandwidth	nm	1000~1022&1038~1100
	10nm Bandwidth	nm	1000~1021&1039~1100
	12nm Bandwidth	nm	1000~1018&1042~1100
20nm Bandwidth	nm	960~1014&1046~1100	
Insertion Loss@23°C	dB	≤1.5 (Typ. 0.8)	≤1.8 (Typ. 1.0)
Signal Isolation (23°C)	dB	≥22	≥40
Stop Wavelength (ASE) Isolation	dB	Standard: ≥25; High Isolation: ≥45	
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	≥45	
Extinction Ratio	dB	≥18	
Work Mode	S Type	-	Can only work in slow axis
	F Type	-	Can work both in slow axis and fast axis
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)
	ASE Guide Out (Y/X Type)	-	Same Fiber, Corr. SM Fiber or MM Fiber
Max. Signal Average Optical Power	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Signal Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. ASE Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Suggest to use Y or X type if blocked optical power is >1W.
  - 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.
  - Package size may be different for different fiber type, optical power and configurations.

## PACKAGE DIMENSION



## ORDERING INFORMATION (PN)

**FHBP-1030-(C)NN(C)(C) C - (C) (C) (C) -H NN PNN -(NN/NN)-C C NN - CC/CCC**

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Dwd ASE/Signal Fiber	Dwd Signal	Signal Ave. Power	Peak Power	ASE/Dwd Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
D=D Type	20~2nm	B=Backward	I=High	S= S Type	Y=Same Fiber	Y=Same Fiber	Guide Out	05~500mW	01~100W	1= 1W	2=PM980Fiber	B= Bare fiber	05~0.5m	N=Without Connector
L=L Type	60~6nm	T=Two-way	Isolation	F= F Type	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	1= 1W	1= 1kW	5= 5W	E=PM1060L Fiber	L= Loose Tube	10~1.0m	FC/APC=FC/APC Connector
Blank for	90~9nm	Blank for Forward	Blank for		N=None	S=50/125um Fiber	Blank for No	10= 10W	5= 5kW	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15~1.5m	LC/PC=LC/PC Connector
Single	200~20nm		Standard		Blank for D Type	Blank for None/D Type		20~20W	10~10kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20~2.0m	SC/APC=SC/APC Connector