

# 1053nm High Power PM Bandpass Filter/Isolator Hybrid

## FEATURES

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

## APPLICATIONS

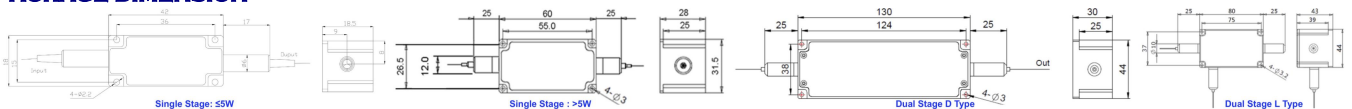
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1053	
Min. Pass Band Width @ 0.5dB	nm	1.0, 2.0, 4.0	
Stop wavelength (ASE)	1nm Bandwidth	1000~1051&1055~1100	
	2nm Bandwidth	1000~1049&1057~1100	
	4nm Bandwidth	1000~1047&1059~1100	
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	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)
	ASE Guide Out (Y/X Type)	-	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
Max. Signal Optical Power (CW)	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60	
Max. Backward Signal Optical Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. ASE Optical Power (CW)	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-1053-(C)NN(C)(C) C - (C) (C) (C)-HPNN -(NN/NN) -C C NN - CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Bwd ASE/Signal Fiber	Bwd Signal	Signal Power	ASE/Bwd Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
D=D Type	10=1nm	B=Backward	I=High	S= S Type	Y=Same Fiber	Y=Same Fiber	Guide Out	05=500mW	1= 1W	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
L=L Type	20=2nm	T=Two-way	Isolation	F= F Type	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	1= 1W	5= 5W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
Blank for	40=4nm	Blank for Forward	Blank for		N=None	5=50/125um Fiber	Blank for No	10= 10W	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
Single			Standard		Blank for D Type	Blank for None/D Type		20=20W	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector