

1083nm PM Bandpass Filter/Isolator 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	Single Stage	Dual Stage
Center Wavelength	nm	1083	
Min. Pass Band Width @ 0.5dB	nm	8.0	
Stop Wavelength (ASE)	nm	1000~1076&1090~1150	
Insertion Loss@23°C	dB	≤1.9	≤3.4
Signal Isolation (23°C)	dB	≥25	≥40
Stop Wavelength (ASE) Isolation	dB	≥25	
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	-	Can only work in slow axis	
	-	Can work both in slow axis and fast axis	
Fiber Type	-	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. Average Optical Power	mW	300	
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 Dimension	mm	∅5.5xL35	
	mm	L120xW12xH10	

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 300mW 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. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FHBP-1083-C NN C (C) C - (C) (C) -HNN P NN -(C) C C NN - CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Dwd ASE Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	80=8nm	B=Backward	I=High	S= S Type	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M= Metal Box	Z=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage		T=Two-way	Isolation	F= F Type	A=105/125um Fiber	A=105/125um Fiber		1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for Forward	Blank for		N=None	5=50/125um Fiber		5= 5kW		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			Standard		Blank for D Type	Blank for None/D Type		10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

