

1560nm PM Bandpass Filter/Isolator Hybrid for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- High Optical Power

APPLICATIONS

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



SPECIFICATIONS

Parameters		Unit	Single Stage	Dual Stage	H Stage
Center Wavelength (λc)		nm	1560		
Min. Pass Band Width @ 0.5dB		nm	0.12, 0.3, 0.7, 1.0, 2.0, 5.0, 7.0, 10, 20, 80		
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1559.4 & 1560.6~1610		
	0.3nm Bandwidth	nm	1500~1559 & 1561~1610		
	0.7nm Bandwidth	nm	1500~1558.5 & 1561.5~1610		
	1nm Bandwidth	nm	1500~1558 & 1562~1610		
	2nm Bandwidth	nm	1500~1557 & 1563~1610		
	5nm Bandwidth	nm	1500~1555 & 1565~1610		
	7nm Bandwidth	nm	1500~1553 & 1567~1610		
	10nm Bandwidth	nm	1500~1550 & 1570~1610		
	20nm Bandwidth	nm	1500~1545 & 1575~1610		
	80nm Bandwidth	nm	1400~1508 & 1612~1650		
Stop Wavelength (ASE)		nm	1250~1292 & 1316-1360		
Insertion Loss@23°C		dB	≤1.2	≤1.4	≤1.4
Signal Isolation (λc, 23°C)		dB	≥28	≥40	≥25
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	-	PM1550nm Fiber or 10/125um PMDC Fiber NA=0.08 (O)		
			10/130um PMDC Fiber NA=0.15 (O2) or 12/130um PMDC Fiber (T)		
			25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)		
ASE Guide Out (Y/X Type)		-	Same Fiber, Corr. SM Fiber or MM Fiber		
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10		15, 20, 25, 30
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	0~70		
Storage Temperature		°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5x ^L 38 (≤5W); Ø6.0x ^L 50 (5~8W)		HI Box
	Metal Box	mm	^H : ^L 90x ^W 12x ^H 10 (≤10W); ^M : ^L 120x ^W 12x ^H 10 (≤8W)		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Suggest to use Y or X type if blocked optical power is >1W.

4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

5. 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.

6. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FHBP-1560-C NNN(C)(C)C - (C)

(C) (C) -HNN PNN-(NN/NN)-(C) C

C NN-CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Bwd ASE Fiber	Bwd Signal	Average Power	Peak Power	ASE/Bwd Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	07=0.7nm	B=Backward	I=High	S= S Type	Y=Same Fiber	Y=Same Fiber	Guide Out	03=300mW	01=100W	1= 1W	M= Metal Box	2=PM1550nm Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage	50=5nm	T=Two-way	Isolation	F= F Type	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	1= 1W	1= 1kW	5= 5W	H=H Box	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
H= H Stage	100=10nm	Blank for Forward	Blank for		N=None	5=50/125um Fiber	Blank for No	5= 5W	5= 5kW	10=10W	Blank for SST	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	200=20nm	Standard			Blank for D Type	Blank for None/D Type		10=10W	10=10kW	Blank for 300mW	or >10W	G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector

