

1550nm PM BP/Isolator Hybrid for Pulse Power ($\leq 7\text{nm BW}$)



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	H Stage
Center Wavelength	nm	1550		
Min. Pass Band Width @ 0.5dB	nm	0.3, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0		
Stop Wavelength (ASE)	0.3nm Bandwidth	1500~1549 & 1551~1610		
	0.7nm Bandwidth	1500~1548.5 & 1551.5~1610		
	1nm Bandwidth	1500~1548 & 1552~1610		
	2nm Bandwidth	1500~1547 & 1553~1610		
	3nm Bandwidth	1500~1546 & 1554~1610		
	5nm Bandwidth	1500~1545 & 1555~1610		
7nm Bandwidth	nm	1500~1543 & 1557~1610		
Insertion Loss@23°C	dB	≤ 1.2	≤ 1.4	≤ 1.6
Signal Isolation (23°C)	dB	≥ 30	≥ 45	≥ 25
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/Extinction Ratio	dB	≥ 45 / ≥ 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	PM1550 Panda Fiber or 10/125um PMDC Fiber (O)		
		12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)		
	ASE Guide Out (Y/X Type)	25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)		
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10		15, 20
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Max. ASE/Backward Signal Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-20~75		
Package Dimension	Stainless Steel Tube (SST)	mm	$\varnothing 5.5 \times L35$ ($\leq 5\text{W}$); $\varnothing 6.0 \times 50$	
	Metal Box	mm	$L120 \times W12 \times H10$	

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.

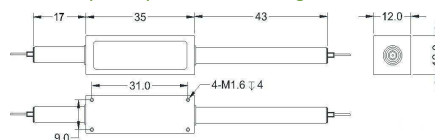
3. Suggest to use Y or X type if blocked optical power is $> 1\text{W}$.

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.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

FHBP-1550-C NN C (C) C - (C) (C) -H NN P NN-(NN/NN)-(C) C C NN -CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Bwd ASE/Signal Fiber	Average Power	Peak Power	ASE/Dwd Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	03~0.3nm	F= Forward	I=High	S= S Type	Y=Same Fiber	Y=Same Fiber	03~300mW	01=100W	1= 1W	M= Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage	07~0.7nm	B=Backward	Isolation	F= F Type	C=Corr. SM Fiber	C=Corr. SM Fiber	1= 1W	1= 1kW	5= 5W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
H= H Stage	20~2nm	T= Twin	Blank for		N=None	A=105/125um Fiber	5= 5W	5= 5kW	10=10W	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	50~5nm	Standard			Blank for D Type	Blank for None/D Type	10=10W	10=10kW	Blank for 300mW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector

