

## 1550nm PM BP/Isolator Hybrid for Pulse Power ( $\geq 10\text{nm BW}$ )

### FEATURES

- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Optical Amplifying Systems
- Telecommunication Networks



### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength	nm	1550		
Min. Pass Band Width @ 0.5dB	nm	10, 15, 20		
Stop Band @25dB	10nm Bandwidth	nm	1520~1540 & 1560~1610	
	15nm Bandwidth	nm	1500~1537 & 1563~1610	
	20nm Bandwidth	nm	1500~1533 & 1567~1610	
Insertion Loss@23°C	dB	$\leq 1.2$	$\leq 1.4$	$\leq 1.7$
Signal Isolation (23°C)	dB	$\geq 30$	$\geq 45$	$\geq 25$
Configuration	D Type	-	2-port	
	Y Type	-	3-port, (Blocked Wavelength Guide Out)	
	X Type	-	4-port, (Both Block Wavelength Guide Out)	
Fiber Type at 3 <sup>rd</sup> or 4 <sup>th</sup> Port (Y/X Type)	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber		
ASE Direction	Forward Type	-	Bandpass Filter is before isolator	
	Backward Type	-	Bandpass Filter is after isolator	
	Twin Type	-	Bandpass Filter is at both sides of isolator	
Optical Return Loss/Extinction Ratio	dB	$\geq 45 / \geq 18$		
Work Mode	S Type	-	Can only work in slow axis	
	F Type	-	Can work both in slow axis and fast axis	
Fiber Type	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 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		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package	Stainless Steel Tube (SST)	mm	$(\varnothing)5.5 \times 35 (\leq 5\text{W})$ ; $(\varnothing)6.0 \times 48 (5\sim 10\text{W})$	
Dimension	Metal Box	mm	(L)120x(W)12x(H)10	

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

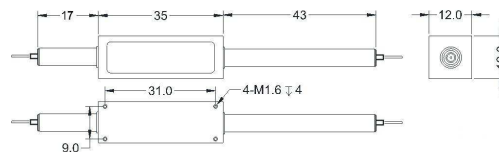
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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.

### PACKAGE DIMENSION (H STAGE)



### ORDERING INFORMATION (PN)

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

Stage	Bandwidth	ASE Type	Work Mode	3rd Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	100=10nm	F= Forward	S= S Type	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M= Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage	150=15nm	B=Backward	F= F Type	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
H= H Stage	200=20nm	T=Twin		5=50/125um Fiber	5=50/125um Fiber	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
				Blank for D Type	Blank for D&Y Type	10=10W	10=10kW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

