

## 1540nm PM BP/Isolator Hybrid for Pulse Power ( $\geq 7\text{nm BW}$ )

### FEATURES

- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Optical Amplifying Systems
- Telecommunication Networks

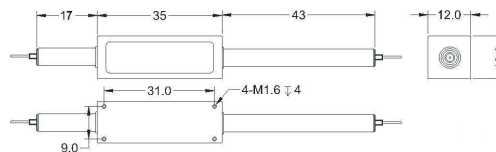


### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength	nm	1540		
Min. Pass Band Width @ 0.5dB	nm	7.0, 10.0, 15.0		
Stop Band @25dB	7nm Bandwidth	1510~1533 & 1547~1600		
	10nm Bandwidth	1510~1530 & 1550~1600		
	15nm Bandwidth	1510~1527.5 & 1552.5~1600		
Insertion Loss@23°C	dB	$\leq 1.3$	$\leq 1.5$	$\leq 1.8$
Signal Isolation (23°C)	dB	$\geq 25$	$\geq 40$	$\geq 20$
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	$(\varnothing)5.5 \times 35$ ( $\leq 5\text{W}$ ); $(\varnothing)6.0 \times 48$ (5~10W)	
Dimension	Metal Box	mm	(L)120x(W)12x(H)10	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB 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  $> 1\text{W}$ .
  - 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 DIMENSION (H STAGE)



### ORDERING INFORMATION (PN)

FHBP-1540-C NN 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	70=7nm	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	100=10nm	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	150=15nm	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