

# 2090nm High Power Bandpass Filter/Isolator Hybrid

#### **FEATURES**

#### High Isolation

- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Telecommunication Networks

**Optical Amplifying Systems** 

**Broadband Systems** 



Metro Networks

**APPLICATIONS** 

### SPECIFICATIONS

Parameters		Unit	Single Stage	H Stage			
Center Wavelength	nm	2090					
Min. Pass Band Widt	nm	20.0					
Stop Band @25dB	nm	2030-2070 & 2110-2150					
Insertion Loss@23°	dB	≤2.3	≤2.8	≤2.8			
Signal Isolation (23	dB	≥14	≥25	≥20			
Configuration	D Type	-	2-port				
	Ү Туре	-	3-port, (Blocked Wavelength Guide Out)				
	Х Туре	-	4-port, (Both Block Wavelength Guide Out				
Fiber Type at 3 <sup>rd</sup> or	-	Same Fiber of other ports 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	dB	≥45					
PDL	dB	≤0.2					
Fiber Type		-	SMF-28 Fiber or SM1950 Fiber (V)				
			10/130um DC Fiber (O) or 25/250um DC Fiber (R)				
Max. Optical Power	W	1, 2	2	3, 5, 10			
Operating Temperature		°C	0~50				
Storage Temperature		°C	-40~85				
Package	Stainless Steel Tube (SST)	mm	(Ø)5.5	5x35	See Drawing		
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.

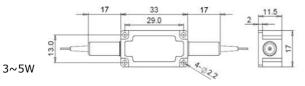
3. Suggest to use Y or X type if blocked optical power is >1W.

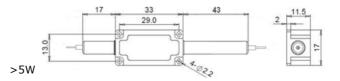
4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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.

#### PACKAGE DIMENSION





Compliant

## **ORDERING INFORMATION (PN)**

FHBI-2090- <mark>C</mark>	NNN	С	- ( <mark>C</mark> )	( <mark>C</mark> ) -	HP NN	-( <mark>C</mark> )	( <mark>C</mark> )	С	NN	-CC/CCC
Stage	Bandwidth	ASE Type	3rd Port Fiber	4th Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
<mark>S=</mark> Single Stage	<mark>200=</mark> 20nm	F= Forward	Y=Same Fiber	Y=Same Fiber	<mark>1-</mark> 1W	M=Metal Box	V= SM1950 Fiber	B= Bare fiber	<mark>05=</mark> 0.5m	N=Without Connector
D= Dual Stage		B=Backward	5=50/125um Fiber	<mark>5</mark> =50/125um Fiber	<mark>3=</mark> 3W	<i>Blank</i> for SST	E=10/130 DC Fiber	L= Loose Tube	<mark>10</mark> =1.0m	FC/APC=FC/APC Connector
H= H Stage		T=Twin	<i>Blank</i> for D Type	<i>Blank</i> for D&Y Type	<mark>5=</mark> 5W	or >2W	R=25/250 DC Fiber	<mark>2</mark> = 2mm Cable	<mark>15=</mark> 1.5m	LC/PC=LC/PC Connector
					<mark>10</mark> =10W		<i>Blank</i> for SMF-28 Fiber	<mark>3</mark> = 3mm Cable	<mark>20=</mark> 2.0m	SC/UPC=SC/UPC Connector
										RoHS

