

# 1970nm High Power Bandpass Filter/Isolator Hybrid

### **FEATURES**

- High Isolation
- Low Insertion Loss
- **Epoxy-Free Optical Path**
- High Reliability and Stability

### **APPLICATIONS**

- **Broadband Systems**
- **Optical Amplifying Systems**
- Telecommunication Networks
- Metro Networks



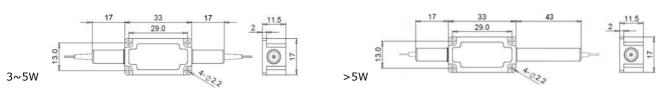
### **SPECIFICATIONS**

Parameters		Unit	Single Stage	Dual Stage	H Stage		
Center Wavelength	nm	1970					
Min. Pass Band Wid	nm	6.0					
Stop Band @25dB	nm	1900-1960 & 1980-2050					
Insertion Loss@23°	dB	≤1.6	≤1.9	≤1.9			
Signal Isolation (23	dB	≥16	≥30	≥25			
	D Type	-	2-port				
Configuration	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	-	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		
Dimension	Metal Box	mm	(L)120x(W)	12x(H)10	Drawing		

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**



## **ORDERING INFORMATION (PN)**

FHBI-1970-C	NN	C	- (C)	( <mark>C</mark> ) -	HP NN	-( <b>C</b> )	(C)	C	NN	-CC/CCC
Stage	Bandwidth	ASE Type	3rd Port Fiber	4th Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	60=6nm	F= Forward	Y=Same Fiber	Y=Same Fiber	1= 1W	M=Metal Box	V= SM1950 Fiber	B= Bare fiber	<mark>05=</mark> 0.5m	N-Without Connector
D= Dual Stage		B=Backward	<b>5=</b> 50/125um Fiber	5=50/125um Fiber	r 3= 3W	<i>Blank</i> for SST	<b>E=</b> 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	s 5= 5W	or >2W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					10=10W		<i>Blank</i> for SMF-28 Fiber	3= 3mm Cable	<b>20-</b> 2.0m	SC/UPC=SC/UPC Connector