

## 1556nm High Power Bandpass Filter/Isolator Hybrid

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

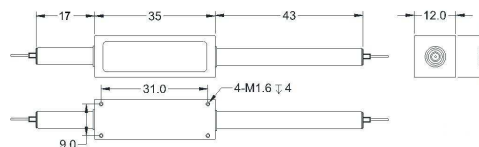


### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength	nm	1556		
Min. Pass Band Width @ 0.5dB	nm	2.0, 8.0, 15.0		
Stop Band @25dB	2nm Bandwidth	1500~1553 & 1559-1610		
	8nm Bandwidth	1500~1548 & 1564-1610		
	15nm Bandwidth	1500~1544 & 1568-1610		
Insertion Loss@23°C	dB	≤1.2	≤1.4	≤1.7
Signal Isolation (23°C)	dB	≥28	≥40	≥22
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 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 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)		
Max. Optical Power (CW)	W	1, 2, 3, 5, 10		15, 20
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)	
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 (H STAGE)



### ORDERING INFORMATION (PN)

FHBI-1556-**C** **NN** **C** - **(C)** **(C)** -**HP NN** - **(C)** **(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	20=2nm	F= Forward	Y=Same Fiber	Y=Same Fiber	1= 1W	M= Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage	80=8nm	B=Backward	5=50/125um Fiber	5=50/125um Fiber	5= 5W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
H= H Stage	150=15nm	T=Twin	Blank for D Type	Blank for D&Y Type	10=10W 20=20W	or >10W	G=25/300 DC Fiber Blank for SMF-28 Fiber	2= 2mm Cable 3= 3mm Cable	15=1.5m 20=2.0m	LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector

