

1550nm Bandpass Filter/Isolator Hybrid ($\leq 3\text{nm BW}$)

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
Center Wavelength	nm	1550	
Min. Pass Band Width @ 0.5dB	nm	0.3, 0.7, 2.0, 3.0	
Stop Band @25dB	0.3nm Bandwidth	nm	1520~1549 & 1551~1610
	0.7nm Bandwidth	nm	1520~1548 & 1552~1610
	2nm Bandwidth	nm	1520~1547 & 1553~1610
	3nm Bandwidth	nm	1520~1546 & 1554~1610
Insertion Loss@23°C	dB	≤ 1.2	≤ 1.4
Signal Isolation (23°C)	dB	≥ 30	≥ 45
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 rd or 4 th 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)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35
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 $>1\text{W}$.
 4. 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.

ORDERING INFORMATION (PN)

FHBI-1550-C	NN	C	-	(C)	(C)	-	(C)	(C)	NN	-CC/CCC
Stage	Bandwidth	ASE Type	3rd Port Fiber	4th Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
S= Single Stage	03=0.3nm	F= Forward	Y=Same Fiber	Y=Same Fiber	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
D= Dual Stage	07=0.7nm	B=Backward	5=50/125um Fiber	5=50/125um Fiber	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
	20=2nm	T=Twin	Blank for D Type	Blank for D&Y Type		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
	30=3nm					Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

