1552nm Bandpass Filter/Isolator Hybrid for Pulse Power

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	1552		
Min. Pass Band Width @ 0.5dB		nm	3.0		
Stop Band @25dB		nm	1500~1549 & 1555-1610		
Insertion Loss@23°C		dB	≤1.2	≤1.4	≤1.6
Signal Isolation (23°C)		dB	≥30	≥45	≥25
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 3rd or 4th 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. 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 Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)		See Drawing
	Metal Box	mm	(L)120x(W)12x(H)10		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

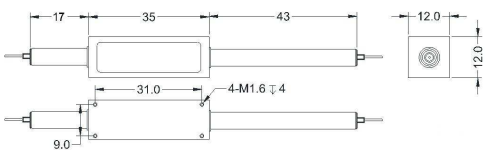
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

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-1552-C NN C - (C) (C) -H NN P NN -(C) (C) C NN -CC/CCC

Stage	Bandwidth	ASE Type	3rd Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	30=3nm	F= Forward	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	0=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage		B=Backward	5=50/125um Fiber	5=50/125um Fiber	1= 1W	1= 1kW	*Blank* for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
H= H Stage		T=Twin	*Blank* for D Type	*Blank* for D&Y Type	5= 5W	5= 5kW	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					10=10W	10=10kW		*Blank* for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector