

## 1103nm High Power Bandpass Filter/Isolator Hybrid for Pulse Power

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

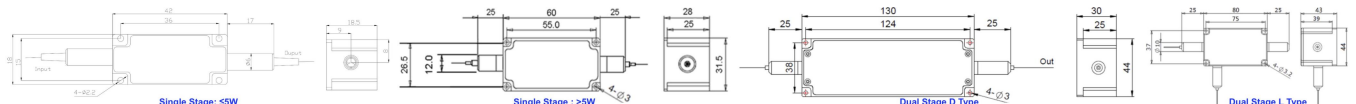
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs
- Sensing System

### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1103	
Min. Pass Band Width @ 0.5dB	nm	10.0	
Stop Wavelength (ASE)	nm	1000~1093&1113~1150	
Insertion Loss@23°C	dB	≤1.5 (Typ. 0.8)	≤1.8 (Typ. 1.0)
Signal Isolation (23°C)	dB	≥20	≥38
Stop Wavelength (ASE) Isolation	dB	Standard: ≥25; High Isolation: ≥45	
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	≥45	
PDL	dB	≤0.3	
Fiber Type	Input&Output	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
	ASE Guide Out (Y/X Type)	-	Same Fiber or MM Fiber
Max. Signal Average Optical Power	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Signal Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. ASE Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower.
  - Suggest to use Y or X type if blocked optical power is >1W.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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 size may be different for different fiber type, optical power and configurations.

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

FHBI-1103-(C)NN(C) (C) - (C) (C) (C) -H NN PNN -(NN/NN)-(C) C NN - CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE/Signal Fiber	Bwd Signal	Signal Ave. Power	Peak Power	ASE/Bwd Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
D=D Type	100~10nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	Guide Out	05=500mW	01=100W	1=1W	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
L=L Type		T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	1=1W	1=1kW	5=5W	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
Blank for		Blank for Forward	Blank for	N=None	5=50/125um Fiber	Blank for No	10=10W	5=5kW	10=10W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
Single		Standard	Blank for D Type	Blank for D Type	Blank for None/D Type		20=20W	10=10kW	Blank for 300mW	Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector

