

## 1092nm Bandpass Filter/Isolator Hybrid

### FEATURES

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

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1092	
Min. Pass Band Width @ 0.5dB	nm	8.0	
Stop Wavelength (ASE)	nm	1000~1084&1100~1150	
Insertion Loss@23°C	dB	≤2.2	≤3.6
Signal Isolation (23°C)	dB	≥22	≥40
Stop Wavelength (ASE) Isolation	dB	≥25	
Standard	dB	≥25	
High Isolation	dB	≥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. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	φ5.5x <sup>L</sup> 35
	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10

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

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.

3. 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.

4. Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

<b>FHBI-1092-C NN</b>	<b>(C)</b>	<b>(C)</b>	<b>-(C)</b>	<b>(C)</b>	<b>-(C)</b>	<b>(C)</b>	<b>C</b>	<b>NN</b>	<b>- CC/CCC</b>	
<i>Stage</i>	<i>Bandwidth</i>	<i>ASE Type</i>	<i>ASE Iso</i>	<i>Fwd ASE Fiber</i>	<i>Dwd ASE Fiber</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>
S= Single Stage	80~8nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage		T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for Forward	Blank for	N=None	5=50/125um Fiber		R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			Standard	Blank for D Type	Blank for None/D Type		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector