

## 1290nm High Power Bandpass Filter/Isolator Hybrid

### 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	1290	
Min. Pass Band Width @ 0.5dB	nm	15.0	
Stop Band @25dB	nm	1250~1278 & 1304-1360	
Insertion Loss@23°C	dB	≤1.4	≤1.6
Signal Isolation (23°C)	dB	≥22	≥40
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	
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.

### ORDERING INFORMATION (PN)

<b>FHBI-1290-C</b>	<b>NNN</b>	<b>C</b>	-	<b>(C)</b>	<b>(C)</b>	<b>-HP NN</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>3rd Port Fiber</i>	<i>4th Port Fiber</i>	<i>Optical Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>	
S= Single Stage	150~15nm	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		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	
		T=Twin	Blank for D Type	Blank for D&Y Type	10=10W		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
					20=20W		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

