

## 1031nm High Power Bandpass Filter

### FEATURES

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

### APPLICATIONS

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



### SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	1031	
Min. Pass Band Width @ 0.5dB	nm	8.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop wavelength (ASE)	nm	960~1021&1041~1100	
Stop Wavelength (ASE) Isolation	Standard High Isolation	dB dB	≥25 ≥45
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	≥50	
Polarization Dependent Loss	dB	≤0.15	
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
Fiber Tensile Load	N		5
Max. Optical Power (CW, ASE+Signal)	W		1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100
Max. ASE Optical Power (CW)	W		0.3, 0.5, 1, 2, 3, 4, 5, 10
Operating Temperature	°C		0~50
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)

**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. Suggest to use Y/X type or H Box 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.

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

### ORDERING INFORMATION (PN)

FFBP-1031-NN(C)(C) (C) (C) - HP NN -(NN) -(C) (C) C NN -CC/CCC											
Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
80-8nm	B=Backward T=Two-way	I=High Isolation	Y=Same Fiber A=105/125um Fiber	Y=Same Fiber A=105/125um Fiber	1=1W 5=5W	1=1W 5=5W	M=Metal Box H=H Box	E=10/125 SC Fiber Q=20/130 DC Fiber	B= Bare fiber L= Loose Tube	05=0.5m 10=1.0m	N=Without Connector FC/APC=FC/APC Connector
	Blank for Forward	Blank for	N=None Blank for D Type	5=50/125um Fiber Blank for None or D Type	10=10W 20=20W	10=10W Blank for 300mW	Blank for SST	R=25/250 DC Fiber Blank for HI1060 Fiber	2= 2mm Cable 3= 3mm Cable	15=1.5m 20=2.0m	LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector