

## 2090nm 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
- Laser Systems
- Research Labs



### SPECIFICATIONS

Parameters	Unit	Value
Center Wavelength	nm	2090
Min. Pass Band Width @ 0.5dB	nm	20.0
Insertion Loss over Pass Band Wavelength	dB	≤1.8
Stop Wavelength (ASE)	nm	2030-2070 & 2110-2150
Stop Wavelength (ASE) Standard	dB	≥25
Isolation 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	≥50
Polarization Dependent Loss	dB	≤0.15
Fiber Type	Input&Output	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) 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
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 $\varnothing 5.5 \times L^{35} (\leq 5W)$ ; $\varnothing 6.0 \times L^{50} (3 \sim 5W)$
	Metal Box	mm H: $L^{90} \times W^{12} \times H^{10} (> 5W)$ ; M: $L^{120} \times W^{12} \times H^{10} (\leq 5W)$

**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/X type or H Box if blocked optical power is  $\geq 1W$ .

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-2090-**NN(C) (C) (C) -HP NN -(NN) - (C) (C) C NN - CC/CC**

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
200~20nm	B=Backward T=Two-way Blank for Forward	I=High Isolation Blank for	Y=Same Fiber A=105/125um Fiber N=None Blank for D Type	Y=Same Fiber A=105/125um Fiber 5=50/125um Fiber Blank for None or D Type	03=300mW 1=1W 5=5W 10=10W	1=1W 5=5W 10=10W Blank for 300mW	M=Metal Box H=H Box Blank for SST	V=SM1950 Fiber O=10/130 DC Fiber R=25/250 DC Fiber Blank for SMF-28 Fiber	B= Bare fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable	05=0.5m 10=1.0m 15=1.5m 20=2.0m	N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector