

## 1078nm Bandpass Filter for Pulse Power

### 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	1078
Min. Pass Band Width @ 0.5dB	nm	9.0
Insertion Loss over Pass Band Wavelength	dB	≤1.2
Stop Wavelength (ASE)	nm	1000~1069&1087~1120
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	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. Average Optical Power (ASE+Signal)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Max. ASE Average Power	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 $\varnothing 5.5 \times L35$ (≤5W); $\varnothing 6.0 \times L50$ (5~10W)
	Metal Box	mm H: $L90 \times W12 \times H10$ (>10W); M: $L120 \times W12 \times H10$ (≤10W)

- 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/X type or H Box 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 optical power and configurations.

### ORDERING INFORMATION (PN)

FFBP-1078-NN(C) (C) (C) (C) - H NN P NN -(NN) -(C) (C) C NN -CC/CCC												
Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
90-9nm	B-Backward	I=High	Y=Same Fiber	Y=Same Fiber	03-300mW	01-100W	1-1W	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05-0.5m	N=Without Connector
	T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	1-1W	1-1kW	5-5W	H=H Box	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	5-5W	10-10kW	10-10W	Blank for SST	R=25/250 DC Fiber	2= 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
	Standard	Blank for D Type	Blank for D Type	Blank for None or D Type	20=20W	20=20kW	Blank for 300mW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector