

## 1078nm Multimode 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	≥30	
Fiber Type	Input&Output	-	50/125um or 62.5/125um MM Fiber
		-	50/125um MM OM3 Fiber
		-	105/125um MM Fiber
	ASE Guide Out (Y/X Type)	-	Same 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	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	<sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 10dB lower.
  - Specifications are tested at low order modes.
  - 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.
  - Package size may be different for different optical power and configurations.

### ORDERING INFORMATION (PN)

**FMBP-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	5- 50/125um MM Fiber	B- Bare fiber	05-0.5m	N-Without Connector
	T-Two-way	Isolation	N=None	Blank for None or D Type	1- 1W	1- 1kW	5- 5W	H-H Box	6- 62.5/125um MM Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
	Blank for Forward	Blank for	Blank for D Type		5- 5W	10- 10kW	10-10W	Blank for SST	3- OM3 MM Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
		Standard			20-20W	20-20kW	Blank for 300mW		A- 105/125um, NA=0.22	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector
									B-105/125um, NA=0.15			