

1053nm 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	1053	
Min. Pass Band Width @ 0.5dB	nm	1.0, 2.0, 4.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop wavelength (ASE)	1nm Bandwidth	nm	1000~1051&1055~1100
	2nm Bandwidth	nm	1000~1049&1057~1100
	4nm Bandwidth	nm	1000~1047&1059~1100
Stop Wavelength (ASE) Isolation	Standard	dB	≥25
	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 ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	mm	^L 90x ^W 12x ^H 10 (>10W); ^L 120x ^W 12x ^H 10 (≤10W)

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.

3. Specifications are tested at low order modes.

4. Suggest to use Y/X type or H Box if blocked optical power is ≥1W.

5. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

6. Devices for higher optical power or with other type fiber or consigned fiber are also available.

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

ORDERING INFORMATION (PN)

FMBP-1053-NN(C) (C) (C) (C) -HNN 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
10-1nm	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
20-2nm	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
40-4nm	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			

