

1550nm Multimode Bandpass Filter for Pulse Power ($\leq 7\text{nm BW}$)

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	1550	
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0	
Insertion Loss over Pass Band Wavelength	dB	≤ 1.2	
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1549.4 & 1550.6~1610
	0.3nm Bandwidth	nm	1500~1549 & 1551~1610
	0.7nm Bandwidth	nm	1500~1548.5 & 1551.5~1610
	1nm Bandwidth	nm	1500~1548 & 1552~1610
	2nm Bandwidth	nm	1500~1547 & 1553~1610
	3nm Bandwidth	nm	1500~1546 & 1554~1610
Stop Wavelength (ASE)	5nm Bandwidth	nm	1500~1545 & 1555~1610
	7nm Bandwidth	nm	1500~1543 & 1557~1610
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 (OM2) or 62.5/125um (OM1) MM Fiber 50/125um OM3 MM Fiber (3) or OM4 MM Fiber(4) 105/125um MM Fiber, NA=0.12(D), 0.15(B), 0.22(A)
	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, 25, 30, 40, 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		$^{\circ}\text{C}$	0~70
Storage Temperature		$^{\circ}\text{C}$	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L 35$ ($\leq 5\text{W}$); $\phi 6.0 \times L 50$ (5~10W)
	Metal Box	mm	H: $L 90 \times W 12 \times H 10$ ($> 10\text{W}$); M: $L 120 \times W 12 \times H 10$ ($\leq 10\text{W}$)

- 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 $\geq 1\text{W}$.
 - 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-1550-NN(C) (C) - (C) (C) - H NN PNN - (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
03=0.3nm	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
07=0.7nm	T=Two-way	Isolation	N=None	A=105/125um Fiber	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
20=2nm	Blank for Forward	Blank for	Blank for D Type	5=50/125um Fiber	5=5W	10=10kW	10=10W	Blank for SST	3= OM3 MM Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
50=5nm		Standard	Blank for None or D Type	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			

