

1545nm 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	1545	
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 3.0, 4.0, 5.0, 11, 33, 40	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1544.4 & 1545.6~1600
	0.3nm Bandwidth	nm	1500~1544 & 1546~1600
	0.7nm Bandwidth	nm	1500~1543.5 & 1546.5~1600
	3nm Bandwidth	nm	1500~1542 & 1548~1600
	4nm Bandwidth	nm	1500~1541 & 1549~1600
	5nm Bandwidth	nm	1500~1540 & 1550~1600
	11nm Bandwidth	nm	1500~1536 & 1554~1600
	33nm Bandwidth	nm	1500~1521 & 1569~1600
40nm Bandwidth	nm	1480~1518 & 1572~1600	
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, 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	0~70
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	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 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-1545-NN(C) (C)-(C) (C) - H NN P NN - (NN) -(C) C C NN - CC/CCC

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Dwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
30-3nm	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
40-4nm	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
100-10nm	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
120-12nm		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