1550nm Multimode Bandpass Filter for Pulse Power (≥8nm 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	8.0, 11, 13, 16, 22, 27, 50, 75, 100
Insertion Loss over Pass Band Wavelength		dB	≤1.2
Stop Wavelength (ASE)	8nm Bandwidth	nm	1520~1542 & 1558~1610
	11nm Bandwidth	nm	1520~1541 & 1559~1610
	13nm Bandwidth	nm	1520~1540 & 1560~1610
	16nm Bandwidth	nm	1500~1537 & 1563~1610
	22nm Bandwidth	nm	1500~1533 & 1567~1610
	27nm Bandwidth	nm	1500~1528 & 1572~1610
	50nm Bandwidth	nm	1500~1520 & 1580~1610
	75nm Bandwidth	nm	1450~1500 & 1600~1650
	100nm Bandwidth	nm	1440~1490 & 1610~1660
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 (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	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)
	Metal Box	mm	H: L90xW12xH10 (>10W);M:L120xW12xH10 (≤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-1550-NN(C) (C)-(C) (C) - HNN 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
80=8nm	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
110=11nm	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
220=22nm	*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
1000=100nm		Standard			20=20W	20=20kW	*Blank* for300mW		A= 105/125um, NA=0.22	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector