

## 1310nm 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	1310	
Min. Pass Band Width @ 0.5dB	nm	2.5. 15	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	2.5nm Bandwidth	nm	1250~1307 & 1313-1430
	15nm Bandwidth	nm	1250~1298 & 1322-1430
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 <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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-1310-NNN(C)(C)-(C) (C) - H NN P NN - (NN) -(C) C C NN -CC/CCC**

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Rwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
25=2.5nm	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
150=15nm	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			

