

## 1550nm PM Bandpass Filter for Pulse Power ( $\geq 8$ 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	Standard	High ER Type
Center Wavelength	nm	1550	
Min. Pass Band Width @ 0.5dB	nm	8.0, 11, 16, 22, 27, 50, 75, 100	
Insertion Loss over Pass Band Wavelength	dB	$\leq 1.0$	$\leq 1.2$
Stop Wavelength (ASE)	8nm Bandwidth	nm	1520~1542 & 1558~1610
	11nm 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
Stop Wavelength (ASE) Isolation	Standard	dB	$\geq 25$
	High Isolation	dB	$\geq 45$
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	$\geq 50$	
Extinction Ratio	dB	$\geq 18$	$\geq 20$
Fiber Type	Input&Output	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
	ASE Guide Out (Y/X Type)	-	Same Fiber, Corr. SM Fiber or MM 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	$^{\circ}\text{C}$	0~70	
Storage Temperature	$^{\circ}\text{C}$	-40~85	
Package Dimension	Stainless Steel Tube	mm	$\phi 5.5 \times L35$ ( $\leq 5\text{W}$ ); $\phi 6.0 \times L50$ (5~10W)
	Metal Box	mm	$L90 \times W12 \times H10$ ( $>10\text{W}$ ); $L120 \times W12 \times H10$ ( $\leq 10\text{W}$ )

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

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. High ER type can only work in slow axis; Suggest to use Y/X type or H Box if blocked optical power is  $\geq 1\text{W}$ .

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

5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of

Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

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

### ORDERING INFORMATION (PN)

**FPBP-1550-NN(C)(C)(C)(C) (C) - H NN P NN -(NN) -(C) C C NN - CC/CCC**

Bandwidth	Type	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	R=High ER	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	1=1W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
110-11nm	Blank for	T=Two-way	Isolation	S=Corr. SM Fiber	S=Corr. SM Fiber	1=1W	1=1kW	5=5W	H=H Box	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
220-22nm	Standard	Blank for Forward	Blank for	N=None	A=105/125um Fiber	5=5W	10=10kW	10=10W	Blank for SST	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000-100nm		Standard	Blank for D Type	Blank for None or D Type		20=20W	20=20kW	Blank for 300mW		G=25/300 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

