1545nm PM 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	Standard	High ER Type
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	≤1.0	≤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) 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	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type	Input&Output	-	PM1550 Panda Fiber or 10/125um PMDC Fiber NA=0.08 (O)	
			10/130um PMDC Fiber NA=0.15 (O2) or 12/130um PMDC Fiber (T)	
			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		°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 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 ≥1W.

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-1545-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
03=0.3nm	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
40=4nm	*Blank* for	T=Two-way	Isolation	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	5= 5W	H=H Box	O=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
50=5nm	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
110=11nm			Standard	*Blank* for D Type	*Blank* for None or D Type	20=20W	20=20kW	*Blank* for300mW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector