

1550nm High Power PM Bandpass Filter (≥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	Standard	High ER Type
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	≤1.0	≤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	
Stop Wavelength (ASE)	Standard	dB	≥25	
	High Isolation	dB	≥45	
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. Optical Power (CW, ASE+Signal)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100	
Max. ASE Optical Power (CW)		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 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - High ER type can only work in slow axis; 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; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 - Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FPBP-1550-NN(C)(C) (C) - (C) (C) -HP NN -(NN) -(C) C C NN - CC/CCC												
Bandwidth	Type	ASE Type	ASE Iso	Fwd ASE Fiber	Dwd ASE Fiber	Optical 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	1-1W	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	5-5W	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	10-10W	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	Blank for 300mW		G=25/300 PMDC Fiber	3= 3mm Cable	20-2.0m	SC/APC=SC/APC Connector

