1555nm High Power PM Bandpass Filter

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	1555	
Min. Pass Band Width @ 0.5dB		nm	0.12, 0.3, 0.7, 3.0, 5.0, 15, 21, 55	
Insertion Loss over Pass Band Wavelength		dB	≤1.0	≤1.2
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1554.4 & 1555.6~1610	
	0.3nm Bandwidth	nm	1500~1554 & 1556~1610	
	0.7nm Bandwidth	nm	1500~1553.5 & 1556.5~1610	
	3nm Bandwidth	nm	1500~1551 & 1559~1610	
	5nm Bandwidth	nm	1500~1550 & 1560~1610	
	15nm Bandwidth	nm	1500~1543 & 1567~1610	
	21nm Bandwidth	nm	1500~1540 & 1570~1610	
	55nm Bandwidth	nm	1450~1520 & 1590~1650	
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. 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	Ø5.5xL38 (≤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-1555-NN(C) (C) (C) (C) -HPNN -(NN) -(C) C C NN -CC/CCC

Bandwidth	Type	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Optical 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	1= 1W	1= 1W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
30=3nm	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
50=5nm	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
150=15nm			Standard	Blank for D Type	Blank for None or D Type	20=20W	Blank for300mW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector