1550nm High Power PM Bandpass Filter (<10nm BW)

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks

SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Center Wavelength		nm	1550	
Min. Pass Band Width @ 0.5dB		nm	0.3, 0.7, 2.0, 3.0, 4.0, 5.0, 7.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.0	≤1.2
Stop Band @ 25dB	0.3nm Bandwidth	nm	1520~1549 & 1551~1610	
	0.7nm Bandwidth		1520~1548 & 1552~1610	
	2nm Bandwidth		1520~1547 & 1553~1610	
	3nm Bandwidth		1520~1546 & 1554~1610	
	4nm Bandwidth		1520~1545 & 1555~1610	
	5nm Bandwidth		1520~1544 & 1556~1610	
	7nm Bandwidth		1520~1543 & 1557~1610	
Configuration	D Type	-	2-port	
	Y Type	-	3-port, (one-direction Blocked Wavelength Guide Out)	
	X Type	-	4-port, (bi-direction Blocked Wavelength Guide Out)	
Fiber Type at 3rd or 4th Port (for Y&X Type)		-	Same Fiber of other ports	
			Corresponding SM Fiber or 50/125um MM Fiber	
Optical Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type		-	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)	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)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 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. High ER type can only work in slow axis at pass port; Suggest to use Y or X type 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.

ORDERING INFORMATION (PN)

FPBP-NNNN - NN (C) (C) (C) -HP NN - (C) C C NN - CC/CCC

Center Wavelength	Bandwidth	Type	3rd Port Fiber	4th Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1550=1550nm	03=0.3nm	R=High ER	Y=Same Fiber	Y=Same Fiber	1= 1W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	07=0.7nm	*Blank* for	S=Corr. SM Fiber	S=Corr. SM Fiber	5= 5W	*Blank* for SST	O=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	20=2nm	Standard	5=50/125um Fiber	5=50/125um Fiber	10=10W	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	70=7nm		*Blank* for D Type	*Blank* for D&Y Type	20=20W		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector