

## 1549nm 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	1549	
Min. Pass Band Width @ 0.5dB		nm	0.12, 0.3, 0.7, 2.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.0	≤1.2
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1548.4 & 1549.6-1600	
	0.3nm Bandwidth	nm	1500~1548 & 1550-1600	
	0.7nm Bandwidth	nm	1500~1547.5 & 1550.5-1600	
	2nm Bandwidth	nm	1500~1546 & 1552-1600	
Stop Wavelength (ASE)	Standard	dB	≥25	
Isolation	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)		mW	300	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W)	
	Metal Box	mm	L <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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.
  - 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-1549-NN (C) (C) (C) - (C) (C) - (C) (C) NN -CC/CCC**

Bandwidth	Type	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
012-0.12nm	R=High ER	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	M=Metal Box	2-PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
03-0.3nm	Blank for	T=Two-way	Isolation	S=Corr. SM Fiber	S=Corr. SM Fiber	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
07-0.7nm	Standard	Blank for Forward	Blank for	N=None	A=105/125um Fiber		T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
20=2nm			Standard	Blank for D Type	Blank for None or D Type		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

