

## 1909nm 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	1909		
Min. Pass Band Width @ 0.5dB	nm	6.0		
Insertion Loss over Pass Band Wavelength	dB	≤1.4	≤1.6	
Stop Wavelength (ASE)	nm	1850-1899 & 1919-2050		
Stop Wavelength (ASE)	Standard	dB		
Isolation	High Isolation	dB		
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 PM1950 Fiber (V)		
	ASE Guide Out (Y/X Type)	10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)		
	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		
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	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)	
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <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; 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-1909-NN(C)(C) (C) (C) (C) - HNN P NN -(NN) - (C) C C NN - CC/CC

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
60-6nm	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
	Blank for	T=Two-way	Isolation	S=Corr. SM Fiber	S=Corr. SM Fiber	1=1W	1=1kW	5=5W	H=H Box	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	Standard	Blank for Forward	Blank for	N=None	A=105/125um Fiber	5=5W	5=5kW	10=10W	Blank for SST	0=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		Standard	Blank for D Type	Blank for None or D Type		10=10W	10=10kW	Blank for 300mW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector