

## 1053nm 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	1053	
Min. Pass Band Width @ 0.5dB		nm	1.0, 2.0, 4.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.2	≤1.4
Stop Wavelength (ASE)	1nm Bandwidth	nm	1000~1051&1055~1100	
	2nm Bandwidth	nm	1000~1049&1057~1100	
	4nm Bandwidth	nm	1000~1047&1059~1100	
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	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) 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, 30, 50, 60, 80, 100	
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:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB 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-1053-NN(C)(C) (C) (C) (C) - H NN P NN -(NN) -(C) C C NN -CC/CCC**

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
10-1nm	R-High ER	B-Backward	I-High	Y-Same Fiber	Y-Same Fiber	03-300mW	01-100W	1-1W	M-Metal Box	2-PM980Fiber	B- Bare fiber	05-0.5m	N-Without Connector
20-2nm	Blank for	T-Two-way	Isolation	S-Corr. SM Fiber	S-Corr. SM Fiber	1-1W	1-1kW	5-5W	H-H Box	E-PM1060L Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
40-4nm	Standard	Blank for Forward	Blank for	N=None	A-105/125um Fiber	5-5W	5-5kW	10-10W	Blank for SST	Q-20/130 PMDC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
		Standard	Blank for D Type	Blank for None or D Type	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

