

## 1045nm 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	1045	
Min. Pass Band Width @ 0.5dB		nm	2.0, 5.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.2	≤1.4
Stop Wavelength (ASE)	2nm Bandwidth	nm	960~1041&1049~1120	
	5nm Bandwidth	nm	960~1038&1052~1120	
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	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
		-	10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)	
	ASE Guide Out (Y/X Type)	-	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	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 0.5dB 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 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-1045-**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
20-2nm	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
50-5nm	Blank for Standard	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
	Blank for Forward	Blank for Standard	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/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

