1080nm PM Band Pass Filter For pulse power

The 1080nm Band-pass Filter is based on thin-film filter technology that passes wavelengths within a certain range and rejects (attenuates) wavelengths outside that range. The band-pass filter features high isolation, low insertion loss, high power handling available upon request

Feathure

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

Application

Broadband Systems
Optical Amplifying Systems
Telecommunication Networks
Metro Networks
CATV Networks

Specification

Parameters		Unit	Standard	High ER Type
Center Wavelength		nm	1080, 1081.7	
Min. Pass Band Width @ 0.5dB		nm	5.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.2	≤1.4
Stop Band @ 30dB		nm	1030-1070&1090-1150	
Configuration	D Type	-	2-port	
	Y Type	-	3-port, (Blocked Wavelength Guide Out)	
Fiber Type at 3rd Port (Only for Y Type)		-	105/125um MM Fiber, HI1060 Fiber or PM980 Panda Fiber	
Optical Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type		-	PM980 Panda Fiber or 10/125um PM Fiber	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Max. Average Optical Power		W	0.3, 0.5, 1, 5, 10	
Max. Peak Power for pulse		kW	0.1, 1, 5, 10	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	

Package Dimension	mm	(Φ)5.5x35

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

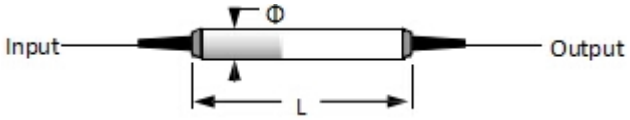
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. High ER type can only work in slow axis at pass port; Suggest to use Y 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 (For example: 6/125um, 20/125um or 25/250um, etc.) are also available; Devices can only work in the core of Double Cladding (DC) Fiber.

Package Dimensions



Ordering information

FPBP- NNNN - NN (C) - (C) H NN P NN - C C NN -CC/CCC

Center Wavelength	Bandwidth	Type	3rd Port Fiber	Average Power	Peak Power	Fiber Type	Fiber Type	Fiber Length	Connector Type
1080- 1080nm	50- 5nm	R-High ER	Y- 105/125um Fiber	03-300mW	01-100W	2- PM980 Fiber	B- Bare Fiber	10-1.0m	N-Without Connector
1081.7-1081.7nm		Blank for Standard	P-PM980 Fiber	1- 1W	1- 1kW	E-10/125 PM Fiber	L- Loose Tube	15-1.5m	FC/APC-FC/APC Connector
			H-HI1060 Fiber	10-10W	10-10kW	O-10/125PMDC Fiber		20-2.0m	LC/PC-LC/PC Connector
			E-10/125 PM Fiber						
			O-10/125PMDC Fiber						
			EH-10/125 Fiber						
			OH-10/125DC Fiber						