idealphotonics

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1092nm PM Band Pass Filter

The 1092nm 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	1092	
Min. Pass Band Width @ 0.5dB		nm	8.0	
Insertion Loss over Pass Band Wavelength		dB	≤1.2	≤1.4
Stop Band @ 30dB		nm	1000~1084&1100~1150	
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	≥20	≥22
Fiber Type		-	PM980 Panda Fiber or 10/125um PM Fiber	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		mW	300	
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.

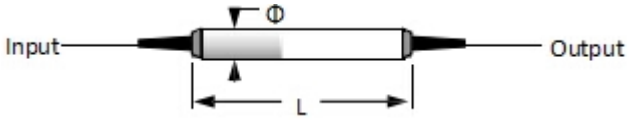
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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)	-	C	C	NN	-	CC/CCC
	Center Wavelength		Bandwidth	Type		3rd Port Fiber		Fiber Type	Fiber Sleeve	Fiber Length		Connector Type
	1092= 1092nm		80= 8nm	R=High ER		Y= 105/125um Fiber		2= PM980 Fiber	B= Bare Fiber	10=1.0m		N=Without Connector
				Blank for Standard		P=PM980 Fiber		E=10/125 PM Fiber	L= Loose Tube	15=1.5m		FC/APC=FC/APC Connector
						H=HI1060 Fiber		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						
						Blank for D Type						