

1053nm PM Bandpass Filter for Pulse Power

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

Parameters	Unit	Standard	High ER Type
Center Wavelength	nm	1053	
Min. Pass Band Width @ 0.5dB	nm	2.0, 4.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	≤1.4
Stop Band @ 25dB	2nm Bandwidth	1000~1048&1058~1100	
	4nm Bandwidth	1000~1047&1059~1100	
Configuration	D Type	-	2-port
	Y Type	-	3-port, (one-direction Blocked Wavelength Guide Out)
	X Type	-	4-port, (bi-direction Blocked Wavelength Guide Out)
Fiber Type at 3 rd or 4 th Port (for Y&X Type)	-	Same Fiber of other ports Corresponding SM Fiber or 50/125um MM Fiber	
Optical Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	≥20
Fiber Type	-	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)	
Polarization Alignment	-	Slow Axis	
Fiber Tensile Load	N	5	
Max. Average Optical Power	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	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)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 at pass port; Suggest to use Y or X 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 are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN)

FPBP-NNNN -	NN (C)	(C)	(C)	-H	NN	P	NN	-(C)	C	C	NN	-CC/CCC
Center Wavelength	Bandwidth	Type	3rd Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1053=1053nm	20=2nm	R=High ER	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
	40=4nm	Blank for	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
		Standard	5=50/125um Fiber	5=50/125um Fiber	5= 5W	5= 5kW	or >10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		Blank for D Type	Blank for D&Y Type	10=10W	10=10kW			R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

