

# 1053nm 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	Value
Center Wavelength	nm	1053
Min. Pass Band Width @ 0.5dB	nm	2.0, 4.0
Insertion Loss over Pass Band Wavelength	dB	≤1.2
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 <sup>rd</sup> or 4 <sup>th</sup> Port (for Y&X Type)	-	Same Fiber of other ports or 50/125um MM Fiber
Optical Return Loss	dB	≥50
Polarization Dependent Loss	dB	≤0.1
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
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)	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	(L)90x(W)18x(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.
  3. 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)

FFBP-NNNN	-	NN	(C)	(C)	-H	NN	P	NN	-	(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Bandwidth	3rd Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type				
1053-1053nm	20-2nm	Y-Same Fiber	Y-Same Fiber	03-300mW	01-100W	M-Metal Box	E-10/125 SC Fiber	B-Bare fiber	05-0.5m	N-Without Connector				
	40-4nm	5-50/125um Fiber	5-50/125um Fiber	1-1W	1-1kW	Blank for SST	Q-20/130 DC Fiber	L-Loose Tube	10-1.0m	FC/APC=FC/APC Connector				
		Blank for D Type	Blank for D&Y Type	5-5W	5-5kW	or >10W	R-25/250 DC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector				
				10-10W	10-10kW		Blank for HI1060 Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector				

