

1029nm 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
- Research Labs
- Laser Systems



SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	1029	
Min. Pass Band Width @ 0.5dB	nm	1.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	nm	950~1026.5&1031.5~1100	
Stop Wavelength (ASE) Isolation	Standard High Isolation	dB dB	≥25 ≥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	
Polarization Dependent Loss	dB	≤0.15	
Fiber Type	Input&Output ASE Guide Out (Y/X 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) Same 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	
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 (SST) Metal Box	mm mm	∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W) ^L 90x ^W 12x ^H 10 (>10W); ^L 120x ^W 12x ^H 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.
 - Suggest to use Y/X type or H Box 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)

FFBP-1029-NN(C)(C) (C)

(C) - H NN PNN - (NN) -(C) (C)

C NN -CC/CCC

Bandwidth	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
10~1nm	B-Backward T-Two-way	I-High Isolation	Y-Same Fiber A=105/125um Fiber	Y-Same Fiber A=105/125um Fiber	03=300mW 1=1W	01=100W 1=1kW	1=1W 5=5W	M=Metal Box H=H Box	E=10/125 SC Fiber Q=20/130 DC Fiber	B= Bare fiber L= Loose Tube	05=0.5m 10=1.0m	N=Without Connector FC/APC=FC/APC Connector
	Blank for Forward	Blank for	N=None	5=50/125um Fiber	5=5W	10=10kW	10=10W	Blank for SST	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	Standard	Blank for D Type	Blank for D Type	Blank for None or D Type	20=20W	20=20kW	Blank for 300mW		Blank for HI1060 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

