

1031nm BP/Partial Mirror Hybrid 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
- ▣ Laser Systems
- ▣ Research Labs



SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	1031	
Min. Bandwidth@0.5dB	nm	8.0	
Excess Loss	dB	≤1.3	
Stop Wavelength (ASE)	nm	960~1021&1041~1100	
Stop Wavelength (ASE) Isolation	Standard	dB	≥25
	High Isolation	dB	≥45
Reflective Ratio	%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90	
BP Position	Forward	-	Bandpass is before the Mirror
	Backward	-	Bandpass is after the Mirror
Configuration	-	D: 2-port, Y: 3-port, (Forward/Backward ASE Guide Out)	
Optical Return Loss	dB	≥45	
PDL	dB	≤0.15	
Fiber Type	Input&Output	-	HI1060 Fiber or 10/125um SC Fiber (E)
		-	10/125um DC Fiber (O), 15/130um DC Fiber (W)
	ASE Guide Out (Y Type)	-	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, 30, 50, 60, 80, 100	
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)	mm	∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	mm	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^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 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.

6. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FHBR-NNNN-NN (C) - NN (C)		(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)
Center Wavelength	Bandwidth	ASE Iso	Ref. Ratio	BP Position	3rd Port Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1031 =1031nm	80=8nm	I=High	01= 1%	B=Backward	Y=Same Fiber	03=300mW	01=100W	1= 1W	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
		Isolation	05=5%	Blank for	5=50/125um Fiber	1= 1W	1= 1kW	5= 5W	H=H Box	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
		Blank for	50=50%	Forward	Blank for D Type	5= 5W	5= 5kW	10=10W	Blank for SST	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		Standard	90=90%			10=10W	10=10kW	Blank for 300mW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector	

