

## 1031nm High Power BP/Partial Mirror Hybrid

### 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) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)
	ASE Guide Out (Y Type)	-	Same Fiber or MM Fiber
Fiber Tensile Load		N	5
Max. Optical Power (CW, ASE+Signal)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100
Max. ASE Optical Power (CW)		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 <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10(>10W);M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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) -HP NN - (NN) - (C) (C) C NN - CC/CCC	Center Wavelength	Bandwidth	ASE Iso	Ref. Ratio	BP Position	3rd Port Fiber	Optical 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	1-1W	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	5-5W	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	10-10W	10-10W	Blank for SST	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		Standard	90-90%			20-20W	Blank for 300mW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	