1053nm 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	1053
Min. Bandwidth@0.5dB		nm	1.0, 2.0, 4.0
Excess Loss		dB	≤1.3
Stop wavelength (ASE)	1nm Bandwidth	nm	1000~1051&1055~1100
	2nm Bandwidth	nm	1000~1049&1057~1100
	4nm Bandwidth	nm	1000~1047&1059~1100
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. 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	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)
	Metal Box	mm	H: L90xW12xH10 (>10W); M: L120xW12xH10 (≤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) -H NN P NN -(NN) -(C) (C) C NN -CC/CCC

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
1053=1053nm	10=1nm	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
	20=2nm	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
	40=4nm	*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* for300mW		*Blank* for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector