1083nm Bandpass Filter/Isolator 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	Single Stage	Dual Stage
Center Wavelength		nm	1083	
Min. Pass Band Width @ 0.5dB		nm	8.0	
Stop Wavelength (ASE)		nm	1000~1076&1090~1150	
Insertion Loss@23°C		dB	≤1.9	≤3.4
Signal Isolation (23°C)		dB	≥25	≥40
Stop Wavelength (ASE) Isolation	Standard	dB	≥25	
	High Isolation	dB	≥45	
ASE Direction		-	F: Forward, B: Backward, T: Two-way	
Configuration		-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss		dB	≥45	
PDL		dB	≤0.3	
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/X Type)	-	Same Fiber or MM Fiber	
Max. Average Optical Power		mW	300	
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)	mm	Φ5.5xL35	
	Metal Box	mm	L120xW12xH10	

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. Only guarantee 300mW continuous wave (CW) power thru testing for connectors added.

4. 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.

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

Ordering Information (PN)

FHBI-1083-C NN (C) (C) - (C) (C) -H NN PNN -(C) (C) C NN -CC/CCC

Stage	Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	80=8nm	B=Backward	I=High	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
D= Dual Stage		T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber		1= 1kW	*Blank* for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for Forward	*Blank* for	N=None	5=50/125um Fiber		5= 5kW		R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			Standard	*Blank* for D Type	*Blank* for None/D Type		10=10kW		*Blank* for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector