

## 1078nm BP Filter/Tap 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	1078
Min. Pass Band Width @ 0.5dB	nm	9.0
Excess Loss	dB	≤1.6
Stop Wavelength (ASE)	nm	1000~1069&1087~1120
Stop Wavelength (ASE) Isolation	dB	Standard: ≥25; High Isolation ≥45
Tap Ratio	%	1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%
Tap Position	F Type	-
		Tap is before Bandpass Filter, Y Type (3-port)
Optical Return Loss	dB	≥50
PDL	dB	≤0.15
Fiber Type	Input&Output	-
	Tap Port	-
		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, HI1060 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, 40, 50, 60
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
	Metal Box	mm
		∅5.5x <sup>L</sup> 40 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W) <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. Only guarantee 1W 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)

**FHBT-1078-NN (C) NN C - H NN P NN - (C) (C) C NN - CC/CCC**

Bandwidth	ASE Iso	Tap Ratio	Tap Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
90=9nm	I=High	01=1%	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	Isolation	05=5%	H=HI1060 Fiber	1=1W	1=1kW	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	Blank for	10=10%	5=50/125um Fiber	5=5W	5=5kW	or >10W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	Standard	50=50%		10=10W	10=10kW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector