

1053nm High Power BP Filter/Tap 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	1053	
Min. Pass Band Width @ 0.5dB	nm	1.0, 2.0, 4.0	
Excess Loss	dB	≤1.6	
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	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 (Forward)	-	Tap is before Bandpass Filter, Y Type (3-port)
Optical Return Loss	dB	≥50	
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)
	Tap Port	-	Same Fiber, HI1060 Fiber or MM Fiber
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x ^L 40 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	mm	^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. 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-1053-NN (C) NN		C	- HP NN	- (C)	(C)	C	NN	- CC/CCC	
Bandwidth	ASE Iso	Tap Ratio	Tap Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
10-1nm	I-High	01-1%	Y-Same Fiber	1-1W	M-Metal Box	E=10/125 SC Fiber	B- Bare fiber	05=0.5m	N=Without Connector
20-2nm	Isolation	05-5%	H-HI1060 Fiber	5-5W	Blank for SST	Q=20/130 DC Fiber	L- Loose Tube	10=1.0m	FC/APC=FC/APC Connector
40-4nm	Blank for Standard	10-10% 50-50%	5=50/125um Fiber	10=10W 20=20W	or >10W	R=25/250 DC Fiber Blank for HI1060 Fiber	2= 2mm Cable 3= 3mm Cable	15=1.5m 20=2.0m	LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector