

1551nm High Power Bandpass Filter

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	1551	
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 2.5, 3.5, 6.5, 16	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1550.4 & 1551.6~1600
	0.3nm Bandwidth	nm	1500~1550 & 1552~1600
	0.7nm Bandwidth	nm	1500~1549.5 & 1552.5~1600
	2.5nm Bandwidth	nm	1500~1548 & 1554~1600
	3.5nm Bandwidth	nm	1500~1547 & 1555~1600
	6.5nm Bandwidth	nm	1500~1545 & 1557~1600
Stop Wavelength (ASE)	Standard	dB	≥25
Isolation	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		≥50
Polarization Dependent Loss	dB		≤0.15
Fiber Type	Input&Output	-	SMF-28 Fiber or 10/130um DC Fiber NA=0.08 (O) 10/130um DC Fiber NA=0.15 (O2) or 12/130um DC Fiber (T) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	ASE Guide Out (Y/X 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		0~70
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	mm	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 10 (≤10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 - Suggest to use Y/X type or H Box if blocked optical power is ≥1W.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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.
 - Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FFBP-1551-NN(C) (C) - (C) (C) - HP NN -(NN) -(C) (C) C NN -CC/CCC

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Dwd ASE Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	1=1W	1=1W	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
07=0.7nm	T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	5=5W	5=5W	H=H Box	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
35=3.5nm	Blank for Forward	Blank for	N=None	S=50/125um Fiber	10=10W	10=10W	Blank for SST	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
160=16nm		Standard	Blank for D Type	Blank for None or D Type	20=20W	Blank for 300mW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector