

1550nm High Power Bandpass Filter ($\leq 7\text{nm BW}$)

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	1550	
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0	
Insertion Loss over Pass Band Wavelength	dB	≤ 1.2	
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1549.4 & 1550.6~1610
	0.3nm Bandwidth	nm	1500~1549 & 1551~1610
	0.7nm Bandwidth	nm	1500~1548.5 & 1551.5~1610
	1nm Bandwidth	nm	1500~1548 & 1552~1610
	2nm Bandwidth	nm	1500~1547 & 1553~1610
	3nm Bandwidth	nm	1500~1546 & 1554~1610
	5nm Bandwidth	nm	1500~1545 & 1555~1610
7nm Bandwidth	nm	1500~1543 & 1557~1610	
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	$^{\circ}\text{C}$		0~70
Storage Temperature	$^{\circ}\text{C}$		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	$\varnothing 5.5 \times L 35$ ($\leq 5\text{W}$); $\varnothing 6.0 \times L 50$ (5~10W)
	Metal Box	mm	H: $L 90 \times W 12 \times H 10$ ($> 10\text{W}$); M: $L 120 \times W 12 \times H 10$ ($\leq 10\text{W}$)

- 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 $\geq 1\text{W}$.
 - 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-1550-NN(C) (C) - (C) (C) - HP NN - (NN) -(C) (C) C NN -CC/CCC

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd 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
20=2nm	Blank for Forward	Blank for	N=None	5=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
50=5nm		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/APC=SC/APC Connector