

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

### 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	7, 10, 15, 20, 50	
Insertion Loss over Pass Band Wavelength	dB	$\leq 1.2$	
Stop Wavelength (ASE)	7nm Bandwidth	nm	1520~1543 & 1557~1610
	10nm Bandwidth	nm	1520~1540 & 1560~1610
	15nm Bandwidth	nm	1500~1537 & 1563~1610
	20nm Bandwidth	nm	1500~1533 & 1567~1610
	50nm Bandwidth	nm	1500~1520 & 1580~1610
Stop Wavelength (ASE)	Standard	dB	$\geq 25$
Isolation	High Isolation	dB	$\geq 45$
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	$\geq 50$	
Polarization Dependent Loss	dB	$\leq 0.15$	
Fiber Type	Input&Output	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 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	$\varnothing 5.5 \times L35$ ( $\leq 5\text{W}$ ); $\varnothing 6.0 \times L50$ (5~10W)
	Metal Box	mm	$L90 \times W12 \times H10$ ( $> 10\text{W}$ ); $L120 \times W12 \times H10$ ( $\leq 10\text{W}$ )

- 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, fiber type 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
70~7nm	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
100=10nm	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
150=15nm	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
200=20nm		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