

1550nm Bandpass Filter for Pulse Power ($\leq 5\text{nm BW}$)

FEATURES

- High Isolation
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems

SPECIFICATIONS

Parameters		Unit	Value
Center Wavelength		nm	1550
Min. Pass Band Width @ 0.5dB		nm	0.3, 0.7, 2.0, 3.0, 4.0, 5.0
Insertion Loss over Pass Band Wavelength		dB	≤ 1.2
Stop Band @ 25dB	0.3nm Bandwidth	nm	1520~1549 & 1551~1610
	0.7nm Bandwidth	nm	1520~1548.5 & 1551.5~1610
	2nm Bandwidth	nm	1520~1547 & 1553~1610
	3nm Bandwidth	nm	1520~1546 & 1554~1610
	4nm Bandwidth	nm	1520~1545 & 1555~1610
	5nm Bandwidth	nm	1520~1544 & 1556~1610
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	≤ 0.1
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. Average Optical Power (ASE+Signal)		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20
Max. ASE Average Power		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	($\varnothing$)5.5x35 ($\leq 5\text{W}$); ($\varnothing$)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)12x(H)10 ($>10\text{W}$); (L)120x(W)12x(H)10 ($\leq 10\text{W}$)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. Suggest to use Y/X type or H Box if blocked optical power is $\geq 1\text{W}$.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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.

ORDERING INFORMATION (PN)

FFBP-1550-NN(C) (C) (C) - H NN P NN -(NN) -(C) (C) C NN -CC/CCC											
Bandwidth	ASE Type	Fwd ASE Fiber	Bwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	B=Backward	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	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	A=105/125um Fiber	A=105/125um Fiber	1= 1W	1= 1kW	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	N=None	5=50/125um Fiber	5= 5W	10= 10kW	10=10W	Blank for SST	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
50=5nm		Blank for D Type	Blank for None or D Type	20=20W	20=20kW	Blank for 300mW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

