1547.7nm Bandpass Filter for Pulse Power

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	1547.7
Min. Pass Band Width @ 0.5dB		nm	0.12, 0.3, 0.7, 2.0, 4.0, 22
Insertion Loss over Pass Band Wavelength		dB	≤1.2
Stop Wavelength (ASE)	0.12nm Bandwidth	nm	1500~1546.1 & 1548.3-1600
	0.3nm Bandwidth	nm	1500~1546.7 & 1548.7-1600
	0.7nm Bandwidth	nm	1500~1546.2 & 1549.2-1600
	2nm Bandwidth	nm	1500~1544.7 & 1550.7-1600
	4nm Bandwidth	nm	1500~1543.7 & 1551.7-1600
	22nm Bandwidth	nm	1500~1531.7 & 1563.7-1600
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. Average Optical Power (ASE+Signal)		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
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		°C	0~70
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)
	Metal Box	mm	H: L 90xW12xH10 (>10W); M: L120xW12xH10 (≤10W)

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 ≥1W.
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.
6. Package size may be different for different optical power and configurations.

Ordering Information (PN)

FFBP-1547.7-NN(C)(C)-(C) (C) - H NN P NN - (NN) -(C) (C) C NN -CC/CCC

Bandwidth	ASE Type	ASE Iso	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	I=High	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	1= 1W	M=Metal Box	0=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	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
40=4nm	*Blank* for Forward	*Blank* for	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
220=22nm		Standard	*Blank* for D Type	*Blank* for None or D Type	20=20W	20=20kW	*Blank* for300mW		*Blank* for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector