

## 1612nm 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	1612	
Min. Pass Band Width @ 0.5dB	nm	5.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	nm	1550~1607 & 1617~1650	
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	∅5.5xL35 (≤5W); ∅6.0xL50 (5~10W)
	Metal Box	mm	H: L90xW12xH10 (>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)

Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Dwd ASE Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
50=5nm	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
	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
	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
		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