

## 1304nm High Power Bandpass Filter/Isolator Hybrid

### 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	Single Stage	Dual Stage
Center Wavelength	nm	1304	
Min. Pass Band Width @ 0.5dB	nm	15.0	
Stop Wavelength (ASE)	nm	1250~1292&1316~1360	
Insertion Loss@23°C	dB	≤1.2	≤1.4
Signal Isolation (23°C)	dB	≥28	≥40
Stop Wavelength (ASE) Isolation	dB	Standard: ≥25; High Isolation: ≥45	
ASE Direction	-	F: Forward, B: Backward, T: Two-way	
Configuration	-	D: 2-port, Y: 3-port, X: 4-port	
Optical Return Loss	dB	≥45	
PDL	dB	≤0.2	
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
Max. Optical Power(CW)	W	1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Backward Signal Optical Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. ASE Average Optical Power(CW)	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5xL38 (≤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 or X type 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)

Stage	Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Bwd Signal	Optical Power	ASE/Bwd Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	150-15nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	Guide Out	1-1W	1-1W	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage		T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	3-3W	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	Blank for No	5-5W	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/D Type		10=10W	Blank for 300mW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector