

## 1304nm Bandpass Filter/Isolator Hybrid 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	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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Signal Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. ASE Average Optical Power	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	∅5.5x <sup>L</sup> 38 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤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)

<b>FHBI-1304-C NNN (C)(C) - (C) (C) (C) -HNN PNN-(NN/NN)-(C) (C) C NN -CC/CCC</b>																																																																											
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