

## 978nm 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
- Research Labs
- Laser Systems



### SPECIFICATIONS

Parameters	Unit	Value	
Center Wavelength	nm	978	
Min. Pass Band Width @ 0.5dB	nm	5.0	
Insertion Loss over Pass Band Wavelength	dB	≤1.2	
Stop Wavelength (ASE)	nm	950~973&983~1100	
Stop Wavelength (ASE) Isolation	Standard High Isolation	dB dB	≥25 ≥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 ASE Guide Out (Y/X Type)	- -	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R) 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	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST) Metal Box	mm mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W) 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 0.5dB 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	Bwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
50-5nm	B-Backward T-Two-way	I-High Isolation	Y-Same Fiber A=105/125um Fiber	Y-Same Fiber A=105/125um Fiber	03-300mW 1-1W	01-100W 1-1kW	1-1W 5-5W	M-Metal Box H-H Box	E=10/125 SC Fiber Q=20/130 DC Fiber	B- Bare fiber L- Loose Tube	05-0.5m 10-1.0m	N-Without Connector FC/APC=FC/APC Connector
	Blank for Forward	Blank for	N=None	5-50/125um Fiber	5-5W	10-10kW	10-10W	Blank for SST	R=25/250 DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
	Standard	Blank for D Type	Blank for D Type	Blank for None or D Type	20-20W	20-20kW	Blank for 300mW		Blank for HI1060 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector

