

## 1909nm 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	1909
Min. Pass Band Width @ 0.5dB	nm	6.0
Insertion Loss over Pass Band Wavelength	dB	≤1.4
Stop Wavelength (ASE)	nm	1850-1899 & 1919-2050
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 SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R)
	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
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)	mm $\varnothing 5.5 \times L 35$ (≤5W); $\varnothing 6.0 \times L 50$ (5~10W)
	Metal Box	mm H: $L 90 \times W 12 \times H 10$ (>10W); M: $L 120 \times W 12 \times H 10$ (≤10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  - Suggest to use Y/X type or H Box if blocked optical power is ≥1W.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - 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
60~6nm	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	V=SM1950 Fiber O=10/130 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 Blank for D Type	5=50/125um Fiber Blank for None or D Type	5~5W 10~10W	10~10kW 20~20kW	10~10W Blank for 300mW	Blank for SST	R=25/250 DC Fiber Blank for SMF-28 Fiber	2= 2mm Cable 3= 3mm Cable	15~1.5m 20~2.0m	LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector

