

## 1045nm 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	1045	
Min. Pass Band Width @ 0.5dB	nm	2.0, 5.0	
Stop wavelength	2nm Bandwidth	960~1041&1049~1120	
(ASE)	5nm Bandwidth	960~1038&1052~1120	
Insertion Loss@23°C	dB	≤3.2	≤6.4
Signal Isolation (23°C)	dB	≥22	≥45
Stop Wavelength	Standard	≥25	
(ASE) Isolation	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	≤0.3	
Fiber Type	Input&Output	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)	
	ASE Guide Out (Y/X Type)	Same Fiber or MM Fiber	
Max. Average Optical Power	mW	100	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	Φ5.5xL35	
	Metal Box	L120x <sup>W</sup> 12x <sup>H</sup> 10	

**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.

4. Only guarantee 100mW 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	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	20=2nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	01=100mW	01=100W	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage	50=5nm	T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber		1= 1kW	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for Forward	Blank for	N=None	5=50/125um Fiber		5= 5kW		R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			Standard	Blank for D Type	Blank for None/D Type		10=10kW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector