

# SPC/B-1×(6+1), SPC/B-1×(18+1)

## High Power Backward Signal & Pump Combiner

### PRODUCT DESCRIPTION

High power signal and pump combiner are the core optical components of industrial high power fiber lasers. GT Lasers SPC/B-1×(6+1), SPC/B-1×(18+1)

backward pump combiner, with extremely low signal and pump insertion loss, low power temperature coefficient, high stability, high reliability, suitable for various applications of high power fiber lasers.

### PRODUCT FEATURE

- ▶ Low signal insertion loss
- ▶ High pumping efficiency
- ▶ High power handling capacity
- ▶ High stability, high reliability

### MAIN APPLICATION

- ▶ High power fiber laser
- ▶ High power optical amplifier
- ▶ Scientific research

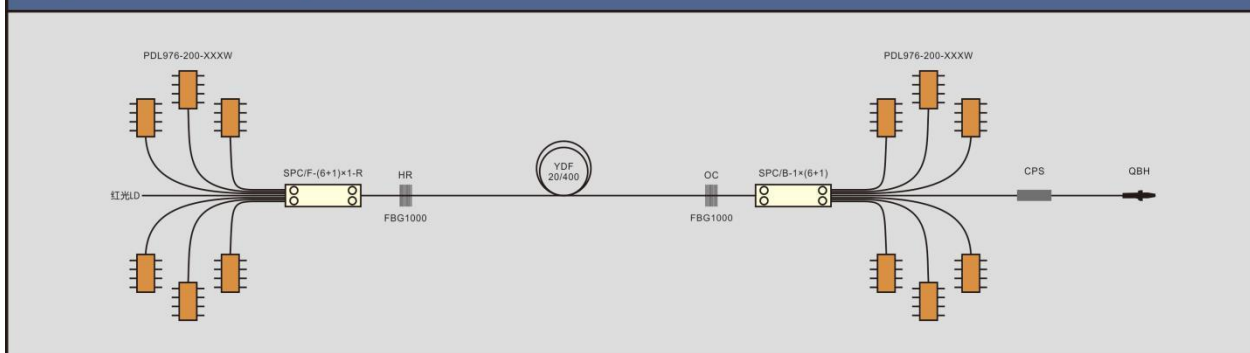


## TECHNIQUE INDEX

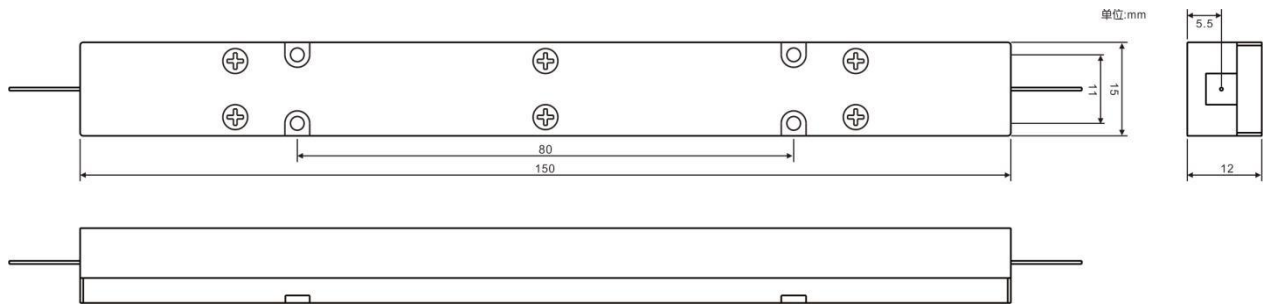
Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical feature	Signal wavelength	(nm)	1000	1080	1100	
	Pump wavelength	(nm)			1000	
	Signal power	(W)		3000		
	Signal insertion loss	(dB)		0.2		
	Pump power	1×(6+1)	(W)	300		Pump Fiber 105, 106.5, 135
				600		Pump Fiber 200, 220
		1×(18+1)	(W)	150		Pump Fiber 105, 106.5
				200		Pump Fiber 135
	Pump Efficiency	1×(6+1)	(%)	97		
		1×(18+1)		96		
General feature	Polarization		Random			
	Operating mode		Continuous			
	Fiber length	(m)		1.5		
	Operating temperature	(°C)	0		70	
	Storage temperature	(°C)	-40		+85	
	Size(L)x(W)x(H)	(mm)	150 ×15 ×12			

## Application Drawing

Application of SPC/B-1×(6+1) in single mode fiber laser



## Size



## ORDER INFORMATION

SPC

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Product series

Type

Input signal fiber number

Pump fiber number

Output signal fiber number

Input signal fiber

Pump fiber and quantity

Output signal fiber

Fiber length

Signal and Pump combiner

B

Backward

1

1pc

6

6pc

1

1pc

142

14/250

6 × 105

6 × 105/125

101

10/125

L10

1.0m

F

Forward

18

18pc

204

20/400

6 × 106.5

6 × 106.5/125

201

20/130

L15

1.5m

254

25/400

6 × 135

6 × 135/155

202

20/250

L20

2.0m

344

34/460/530

6 × 200

6 × 200/220

252

25/250

6 × 220

6 × 220/242

18 × 105

18 × 105/125

18 × 106.5

18 × 106.5/125

18 × 135

18 × 135/155