2 µm Polarization Beam Combiner/Splitter (PBC/PBS Series)

Rev 11

Description

The 2 µm Polarization Beam Combiner/Splitter is a compact high performance lightwave component that combines two orthogonal polarization signals into one output fiber. The most common application is to combine the light of two pump lasers into one single fiber to double the pump power in EDFA or Raman Amplifier. The 2 µm Polarization Beam Combiner can also be used as a beam splitter.

Key Features

- Low Insertion Loss

Applications

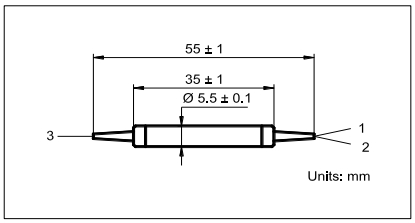
- EDFA
- Raman Amplifier

Specifications

Parameter	Unit	Value	
Grade	-	Grade P	Grade A
Center Wavelength (λc)	nm	2000	
Operating Wavelength Range	nm	λc ± 40	
Typ. Insertion Loss	dB	0.6	0.8
Max. Insertion Loss	dB	1.1	1.4
Min. Extinction Ratio, 23 ℃ (for Splitter Only)	dB	20	18
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power (Continuous Wave)	mW	500	
Fiber Type	-	PM 1550 Panda Fiber for Ports 1 & 2	
	-	SMF-28 or PM 1550 Panda Fiber for Port 3	
Max. Tensile Load	N	5	
Operating Temperature	℃	- 5 to + 70	
Storage Temperature	℃	- 40 to + 85	

[1]IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PBC-①①①①-②-③-④-⑤-⑥

PBS-①①①①-②-③-④-⑤-⑥

①①①①: Wavelength
2000 - 2000 nm
SSSS - Specify

②: Grade
P - Premium
A - A Grade

③: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

④: Fiber Jacket
B - 250 µm Bare Fiber
L - 900 µm Loose Tube
S - Specify

⑤: Fiber Type for Port 3

1 - SMF-28 Fiber

2 - Slow Axis Aligned 45° to Port 1

3 - Slow Axis Aligned to Port 1

S - Specify

⑥: Fiber Length

Q - 0.75 m

S - Specify