PHOTONIK SPECS SHEET www.photonik.com.sg,

Full-Fiber Pigtailed Polarization Beam Splitter/Combiner (PBS/PBC Series)



The 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 a single fiber to double the pump power to an Erbium-Doped Fiber Amplifier (EDFA) or a Raman Amplifier. The typical configuration uses two PM fibers for the input and the SM fiber for the output. The device can also be used as a beam splitter with SM/PM input fiber, depending on applications.

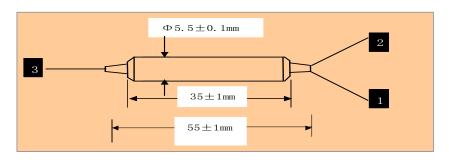
Partially multimode(MM) fiber pigtailed versions available for some special applications; Customized hybrid tapped & isolated PBS/PBC modules may be designed per requirements.

Key Specifications

Parameter	Unit	Grade P	Grade A
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	± 40	
Typ. Insertion loss	dB	0.3	0.5
Max. Insertion loss	dB	0.6	0.8
Min. Extinction Ratio (for splitter only)	dB	22	20
Min.Return Loss	dB	50	
Min.Directivity	dB	5	0
Max. Optical Power(CW)	W	1000(for high power); 300mW typ.	
Fiber Type		Port 1 & 2: PM(Panda) Fiber; Port 3: SMF-28 or PM(Panda) Fiber	
Max. Tensile Load	N	5	
Operating Temperature	$^{\circ}$	-5 to + 70	
Storage Temperature	$^{\circ}$	-40 to +85	
Above specifications are for device without co	nnector.		

^{*} For devices with input & output connectors, IL will be total 0.2 ~ 0.3dB higher, while RL will be 5dB lower, and ER with 2dB lower.

Package Dimensions



Ordering Information

PBS/C-11-2-33333-44444-55555-6

For definitions of ③ - ⑤, please specify each per options of a,b,c,and d in sequence)

11: Wavelength b: Fiber Type 3: Port 1 Definition 31-1310nm d: Fiber Length 4: Port 2 Definition 1- SMF-28 1 - 1.0 meter, standard 48-1480nm 55-1550nm **⑤**: Port 3 Definition 2- PM(Panda) S - Specify 3 - 50/125um MMF SS-Specify a: Connector Type 4 - 62.5/125um MMF **6**: Power Version 2: Grade Q - Low power 300mW or less 1 - FC/UPC S - Specify P - Premium 2 - FC/APC H - 500 ~1000mW c: Fiber Dimension A - A Grade 3 - SC/UPC S - Specify CS - Customized 4 - SC/APC 1 - 250um bare fiber N - None 2 - 400um tube S - Specify 3 - 900um tube S - Specify

Remark: If unspecified by users. PM connector keys are all aligned to the slow axis of PM fiber pigtail.

Tel: +65 - 6562 7838 sales@photonik.com.sg