# **Polarization Beam Combiner/Splitter 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
- Research Labs
- Laser Systems



### **SPECIFICATIONS**

Parameter		Unit	Value			
Center Wavelength		nm	1310, 1480, 1550, 1590			
Bandwidth		nm	+/-40			
To continue Long	(Typ.)	dB	0.5			
Insertion Loss	(Max.)	dB	0.7			
Directivity		dB	≥50			
Optical Return Loss		dB	≥45			
Extinction Datic (for ED)	(Typ.)	dB	22			
Extinction Ratio (for FP	(Min.)	dB	18			
			PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O)			
Fiber Type of Port 1 & Port 2		-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)			
			25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)			
Fiber Type of Port 3	S Type	-	Corresponding SM Fiber			
	P Type	-	Same Fiber to Port1&2, Slow axis align to Port 1			
	Q Type	-	Same Fiber to Port1&2, Slow axis is 45° to Port 1			
Direction of Incident Po	larization	-	Slow Axis			
Fiber Tensile Load		N	5			
Max. Average Optical P	ower	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60			
Max. Peak Power for Pu	lse	kW	0.1, 1, 2, 3, 5, 10, 15, 20			
Operating Temperature		°C	0~70			
Storage Temperature		°C	-40~85			
Dagle as Dimensis	Stainless Steel Tube (SST)	mm	<sup>∅</sup> 5.5x <sup>L</sup> 38 (≤5W); <sup>∅</sup> 6.0x <sup>L</sup> 50.(5~10W)			
Package Dimension	Metal Box	mm	<sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)			
Nets: 1 Specifications are for device without connectors: Specifications may change without notice						

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

## ORDERING INFORMATION (PN) FPBC=Polarization Beam Combiner; FPBS=Polarization Beam Splitter.

FPBC - FPBS	NNNN Center Wavelength	- C 3rd Port Fiber	H NN Average Power	P NN Peak Power	- (C) Package	<b>C</b> Fiber Type	<b>C</b> Fiber Sleeve	NN Fiber Langth	- CC/CCC Connector Type
	1310-1310nm	S=S Type	03=300mW	01-100W	M=Metal Box	2-PM1310/1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1480=1480nm	P=P Type	1- 1W	1= 1kW	<i>Blank</i> for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1550=1550nm	Q=Q Type	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	1590=1590nm		10-10W	10-10kW		G=25/300 PMDC Fiber	3= 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector







<sup>2.</sup> To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

<sup>3.</sup> Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

<sup>4.</sup> 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.

<sup>5.</sup> Package size may be different for different optical power and fiber type.