Polarization Beam Combiner/Splitter

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
Insertion Loss	(Typ.)	dB	0.5
	(Max.)	dB	0.7
Directivity		dB	≥50
Optical Return Loss		dB	≥45
Extinction Ratio (for FPBS)	(Typ.)	dB	22
	(Min.)	dB	20
Fiber Type of Port 1 & Port 2		-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O) 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 Polarization		-	Slow Axis
Fiber Tensile Load		N	5
Max. Optical Power (CW)		mW	300
Operating Temperature		°C	0~70
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL35
	Metal Box	mm	L120xW12xH10

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

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

3. 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.

4. Package size may be different for different optical power and fiber type.

Ordering Information (PN) *FPBC=Polarization Beam Combiner; FPBS=Polarization Beam Splitter.*

FPBC FPBS -	NNNN	-	C	-	(C)	C	C	NN	-	CC/CCC
	Center Wavelength		*3rd Port Fiber*		*Package*	*Fiber Type*	*Fiber Sleeve*	*Fiber Length*		*Connector Type*
	1310=1310nm		S=S Type		M=Metal Box	2=PM1310/1550Fiber	B= Bare fiber	05=0.5m		N=Without Connector
	1480=1480nm		P=P Type		*Blank* for SST	O=10/125 PMDC Fiber	L= Loose Tube	10=1.0m		FC/APC=FC/APC Connector
	1550=1550nm		Q=Q Type			T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m		LC/PC=LC/PC Connector
	1590=1590nm					G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m		SC/UPC=SC/UPC Connector