1020-1150nm 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	1020, 1030, 1040, 1053 1064, 1070, 1080	1092, 1103 1120, 1150
Bandwidth		nm	+/-20	+/-10
Insertion Loss	(Typ.)	dB	0.6	0.8
	(Max.)	dB	0.9	1.2
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		-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
			10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)	
			20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
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	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$^{Ø}5.5x^{L}35$	
	Metal Box	mm	$^{L}120x^{W}12x^{H}10$	

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

2. To add connectors, IL is 0.5dB 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 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
1030=1030nm	S=S Type	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
1064=1064nm	P=P Type	*Blank* for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1092=1092nm	Q=Q Type		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1120=1120nm			R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector